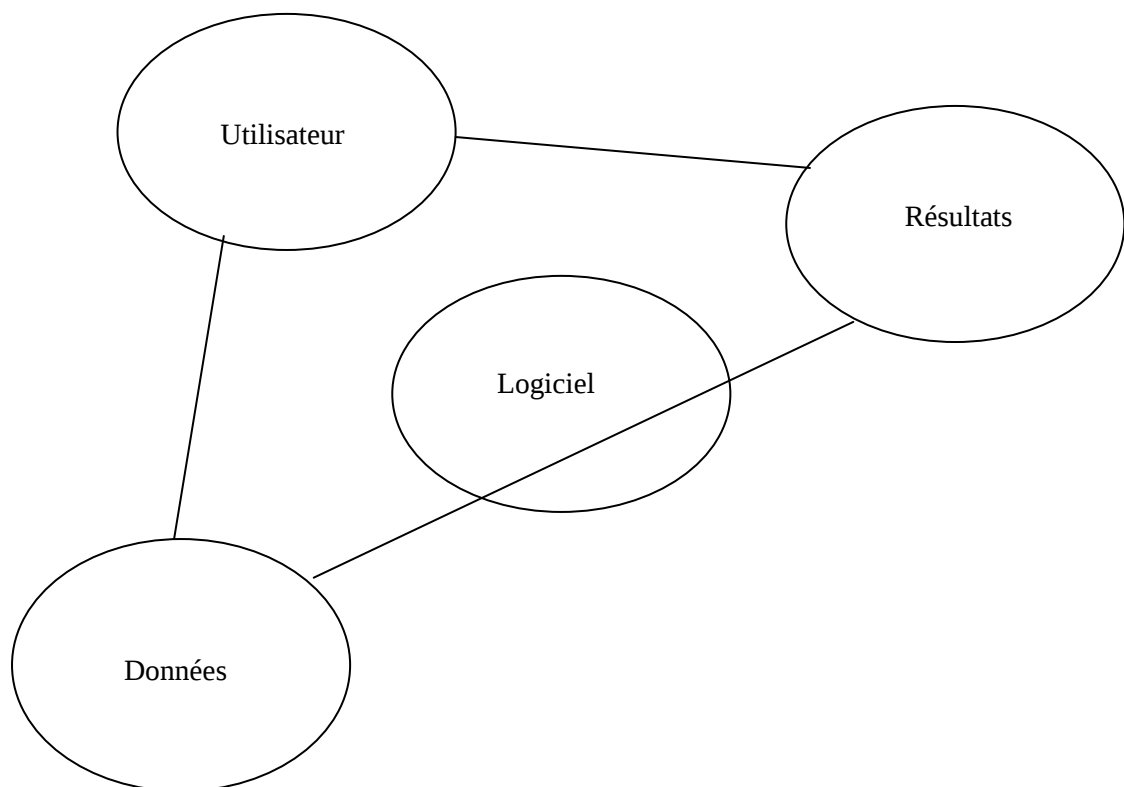
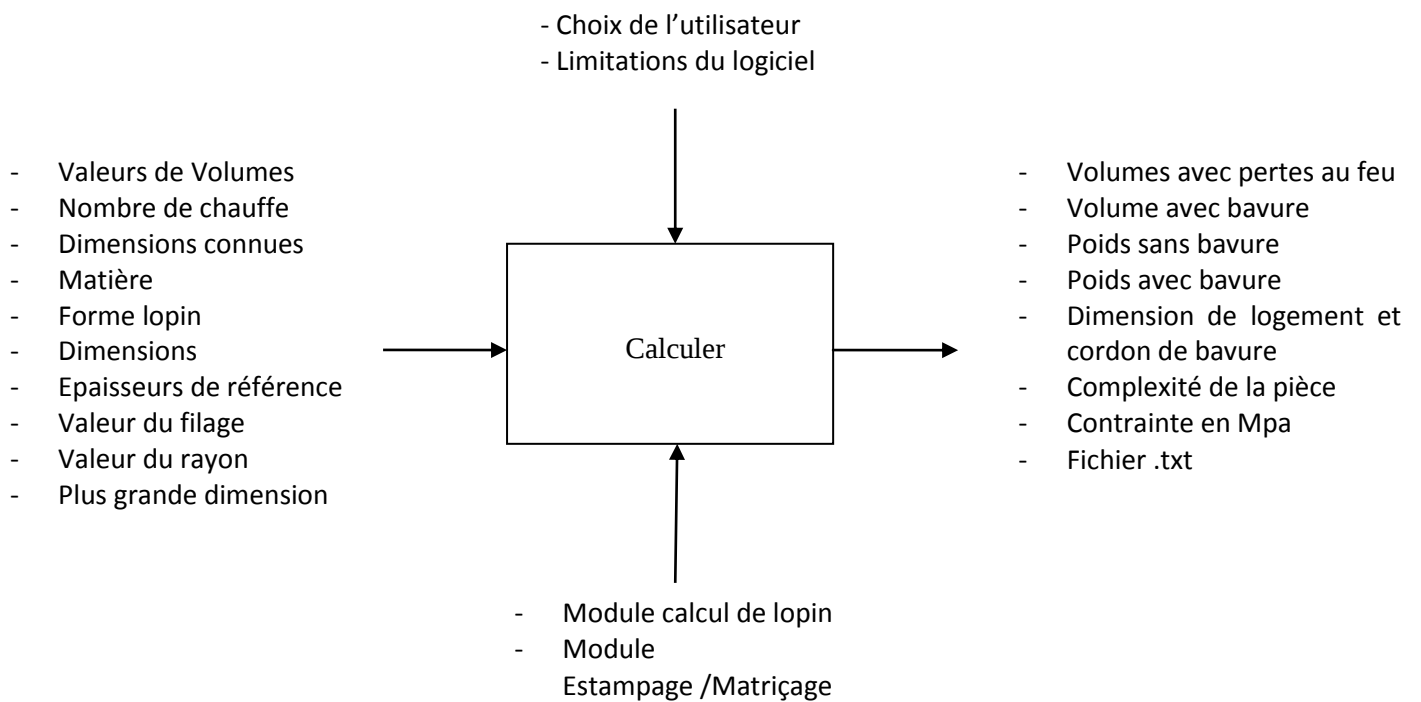


Algorithme / Analyse fonctionnelle du programme

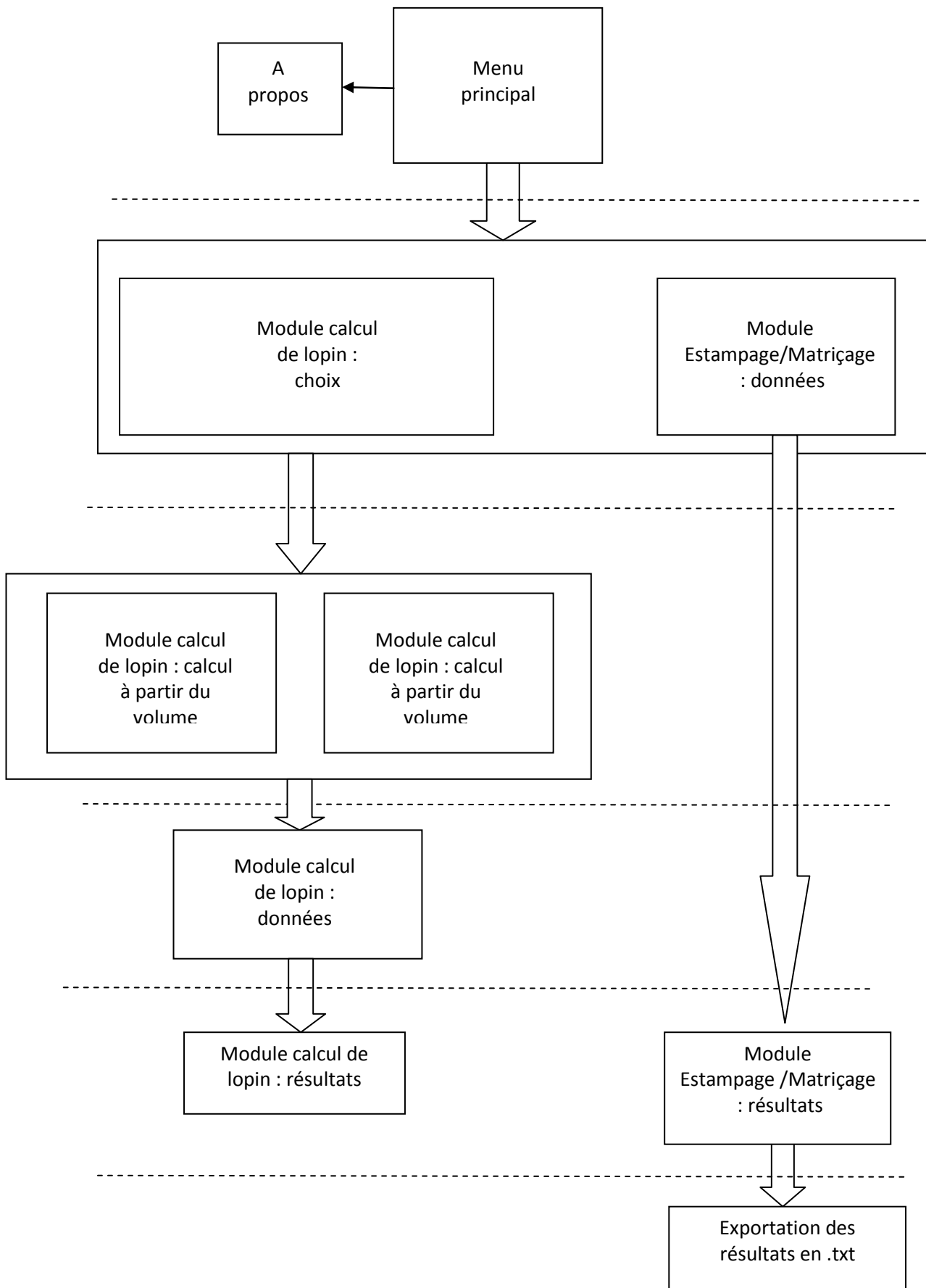
I -«diagramme pieuvre » ou diagramme d'association :



II- Analyse fonctionnelle descendante :



III- Hiérarchisation du système :



IV- Algorithme du programme :

1) Module calcul du lopin :

A) *Calcul du volume à partir des dimensions*

i) *Emplacement des saisies*

Diamètre ou Coté = textbox2.text

Longueur = textbox1.text

Nombre de chauffes = textbox3.text

Pertes au feu définis par nombre de chauffe (majoration de 2,5% à chaque chauffe)

ii) *Si le lopin est rond :*

$$\text{Volume} = S \times L$$

$$\text{Section} = (\pi \times d^2) \div 4$$

Volume avec pertes au feu = Volume + $(x((\text{volume} \times 2,5) \div 100))$ avec x = nombre de chauffes prévues

$$\text{Longueur finale} = \text{Volume finale} / \text{section}$$

iii) *Si le lopin est carré :*

$$\text{Volume} = S \times L$$

$$S = C^2$$

Volume final (avec pertes au feu) = Volume + $(x((\text{volume} \times 2,5) \div 100))$ avec x = nombre de chauffes prévues

$$\text{Longueur finale} = \text{Volume finale} / \text{section}$$

iv) *Calcul de la masse :*

Si acier sélectionner : $m = V_{\text{final}} \times 0,00785$

Si aluminium sélectionner : $m = V_{\text{final}} \times 0,0027$

Si laiton sélectionner : $m = V_{\text{final}} \times 0,0084$

Si cuivre sélectionner : $m = V_{\text{final}} \times 0,00892$

Si titane sélectionner : $m = V_{\text{final}} \times 0,004507$

B) calcul des dimensions à partir du volume :

i) *Emplacement des saisies*

Volume = textbox1.text

Nombre de chauffe = textbox2.text

Valeur de la dimension connu (selon choix utilisateur) = textbox3.text

Pertes au feu définis par nombre de chauffe (majoration de 2,5% à chaque chauffe)

ii) *Si le lopin est rond et la dimension connue est le diamètre :*

Volume final (avec pertes au feu) = Volume + $(x((\text{volume} \times 2,5) \div 100))$ avec x = nombre de chauffe prévues

Longueur = $V_{\text{final}} / ((\pi \times d^2) \div 4)$

iii) *Si le lopin est rond et la longueur est connue :*

Volume final (avec pertes au feu) = Volume + $(x((\text{volume} \times 2,5) \div 100))$ avec x = nombre de chauffe prévues

Longueur avec pertes au feu = longueur + $(x((\text{longueur} \times 2,5) \div 100))$ avec x = nombre de chauffe prévues

Diamètre = $V_{\text{final}} / \text{longueur final}$

iv) *Si le lopin est carré et la dimension connue est le coté :*

Volume final (avec pertes au feu) = Volume + $(x((\text{volume} \times 2,5) \div 100))$ avec x = nombre de chauffe prévues

Longueur = $V_{\text{final}} / \text{coté}^2$

v) *Si le lopin est carré et la dimension connue est la longueur :*

Volume final (avec pertes au feu) = Volume + $(x((\text{volume} \times 2,5) \div 100))$ avec x = nombre de chauffe prévues

Longueur avec pertes au feu = longueur + $(x((\text{longueur} \times 2,5) \div 100))$ avec x = nombre de chauffe prévues

Coté = $\sqrt{(V_{\text{final}} \div \text{longueur finale})}$

vi) *Calcul de la masse :*

Si acier sélectionner : $m = V_{\text{final}} \times 0,00785$

Si aluminium sélectionner : $m = V_{\text{final}} \times 0,0027$

Si laiton sélectionner : $m = V_{\text{final}} \times 0,0084$

Si cuivre sélectionner : $m = V_{\text{final}} \times 0,00892$

Si titane sélectionner : $m = V_{\text{final}} \times 0,004507$

2) Module estampage/matriçage :

i) *Emplacement des saisies*

Volume = textbox2.text

Valeur de la plus grande dimension pièce (L ou D selon choix utilisateur) = Textbox1.text

Valeur de e (épaisseur de référence) = Textbox3.text

Valeur de h (hauteur de filage) = textbox4.text

Valeur de rayon (r) = Textbox5.text

ii) *Calcul du cordon et du logement de bavure :*

$$\lambda = (0,032 \times volume) + 4,3$$

$$b = (0,065 \times volume) + 15$$

si $b < 20$ alors $b = 20$

$$h = (0,018 \times volume) + 1,3$$

si $h < 3$ alors $h = 3$

$$r = (0,065 \times volume) + 0,7$$

iii) *Calcul de la complexité :*

h/e = hauteur du filage / épaisseur de référence

r/L si longueur est sélectionnée

$2r/D$ si diamètre sélectionner

iv) *Détermination selon le rapport h/e :*

Si $h/e \leq 1$ alors Pièce extra simple (Pas de filage)

Si $1 > h/e \leq 1,5$ alors pièce simple (pas de filage)

Si $1,5 > h/e \leq 2$ alors pièce semi-simple (filage insignifiant)

Si $2 > h/e \leq 2,5$ alors pièce semi-complexe (léger filage)

Si $2,5 > h/e \leq 3$ alors pièce complexe (filage important)

Si $h/e > 3$ alors pièce très complexe (filage important)

v) *Détermination de la complexité selon le rapport r/l ou $2r/D$:*

Si r/l ou $2r/D > 0,035$ alors pièce extra simple (pas de filage)

Si $0,032 > r/l$ ou $2r/D \leq 0,035$ alors pièce simple (pas de filage)

Si $0,029 > r/l$ ou $2r/D \leq 0,032$ alors pièce semi-simple (filage insignifiant)

Si $0,027 > r/l$ ou $2r/D \leq 0,029$ alors pièce semi-complexe (léger filage)

Si $0,025 > r/l$ ou $2r/D \leq 0,027$ alors pièce complexe (filage important)

Si r/l ou $2r/D < 0,025$ alors pièce très complexe (filage important)

vi) Calcul du rapport λ/e :

Si r/l ou $2r/D > 0,036$ alors $\lambda/e = 3,75$
 Si $0,035 < r/l$ ou $2r/D \leq 0,036$ alors $\lambda/e = 4$
 Si $0,0335 < r/l$ ou $2r/D \leq 0,035$ alors $\lambda/e = 4,25$
 Si $0,032 < r/l$ ou $2r/D \leq 0,0335$ alors $\lambda/e = 4,5$
 Si $0,0315 < r/l$ ou $2r/D \leq 0,032$ alors $\lambda/e = 4,75$
 Si $0,029 < r/l$ ou $2r/D \leq 0,0315$ alors $\lambda/e = 5$
 Si $0,028 < r/l$ ou $2r/D \leq 0,029$ alors $\lambda/e = 5,25$
 Si $0,027 < r/l$ ou $2r/D \leq 0,028$ alors $\lambda/e = 5,5$
 Si $0,026 < r/l$ ou $2r/D \leq 0,027$ alors $\lambda/e = 5,75$
 Si $0,025 < r/l$ ou $2r/D \leq 0,026$ alors $\lambda/e = 6$
 Si $0,023 < r/l$ ou $2r/D \leq 0,025$ alors $\lambda/e = 6,25$
 Si r/l ou $2r/D \leq 0,023$ alors $\lambda/e = 6,5$

vii) Calcul de ε :

$$\varepsilon = \frac{\text{rapport } \frac{\lambda}{e}}{\lambda}$$

viii) Détermination de p et de q :

Si r/l ou $2r/D > 0,036$ alors $p = 490$
 $q = 280$
 Si $0,035 < r/l$ ou $2r/D \leq 0,036$ alors $p = 490$
 $q = 280$
 Si $0,0335 < r/l$ ou $2r/D \leq 0,035$ alors $p = 500$
 $q = 285$
 Si $0,032 < r/l$ ou $2r/D \leq 0,0335$ alors $p = 520$
 $q = 290$
 Si $0,0315 < r/l$ ou $2r/D \leq 0,032$ alors $p = 540$
 $q = 300$
 Si $0,029 < r/l$ ou $2r/D \leq 0,0315$ alors $p = 560$
 $q = 310$
 Si $0,028 < r/l$ ou $2r/D \leq 0,029$ alors $p = 580$
 $q = 320$
 Si $0,027 < r/l$ ou $2r/D \leq 0,028$ alors $p = 600$
 $q = 330$
 Si $0,026 < r/l$ ou $2r/D \leq 0,027$ alors $p = 625$
 $q = 350$
 Si $0,025 < r/l$ ou $2r/D \leq 0,026$ alors $p = 650$
 $q = 360$
 Si $0,023 < r/l$ ou $2r/D \leq 0,025$ alors $p = 690$
 $q = 370$
 Si r/l ou $2r/D \leq 0,023$ alors $p = 720$
 $q = 380$

xi) *Volume total :*

x) Si la plus grande dimension est le diamètre (pièce de révolution) :

$$\text{Volume total} = \text{volume} + ((\lambda \times \varepsilon) \times 2 \times \pi \times ((\text{diametre} \div 2) + ((\lambda \times \varepsilon) \div 2))$$

xi) Si la plus grande dimension est une longueur :

$$\text{Volume total} = \text{volume} + ((\lambda \times \varepsilon) \times \text{longueur}) \times 2)$$

xii) Masse totale :

Si acier sélectionner : $m = V_{\text{total}} \times 0,00785$
Si aluminium sélectionner : $m = V_{\text{total}} \times 0,0027$
Si laiton sélectionner : $m = V_{\text{total}} \times 0,0084$
Si cuivre sélectionner : $m = V_{\text{total}} \times 0,00892$
Si titane sélectionner : $m = V_{\text{total}} \times 0,004507$

V- Code source :

Page d'accueil

```
Public Class Form1
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load

        End Sub
        Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
            Dim formSecondaire As New Form3()

            formSecondaire.ShowDialog()

        End Sub

        Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
            Dim formSecondaire As New Form5()

            formSecondaire.ShowDialog()

        End Sub

        Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button3.Click

            'demande confirmation avant de quitter

            quit = MsgBox("Voulez vous quitter?", vbQuestion + vbYesNo + 256,
"Attention")
            If quit = vbYes Then
                Application.Exit()
            End If

        End Sub

        Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button4.Click

            Dim formSecondaire As New Form2()

            formSecondaire.ShowDialog()

        End Sub
End Class
```

Form « à propos »:

```
Public Class Form2

    Private Sub Form2_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load

        End Sub

    Private Sub PictureBox1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PictureBox1.Click
        PictureBox1.Image = Image.FromFile("esff.bmp")
    End Sub

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click

        Close()

    End Sub
End Class
```

Form "Module calcul du lopin : choix" :

```
Public Class Form7

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click

        Form8.Show()

    End Sub

    Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button3.Click

        Close()

    End Sub

    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click

        Form3.Show()

    End Sub
End Class
```

Form «Module calcul du lopin : à partir du volume» :

```
Public Class Form3

    Public Sub Form3_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load

        'remplissage des listbox

        ListBox1.Items.Add("carré")
        ListBox1.Items.Add("rond")

        ListBox2.Items.Add("acier")
        ListBox2.Items.Add("aluminium")
        ListBox2.Items.Add("laiton")
        ListBox2.Items.Add("cuivre")
        ListBox2.Items.Add("titane")

    End Sub

    Private Sub TextBox1_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox1.KeyPress
        'limitation des caractères lettres interdites transformation des
points en virgules
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

        If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True
    End Sub
```

```

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True
    End Sub

    Private Sub TextBox3_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox3.KeyPress
        'limitation des caractères lettres interdites transformation des
points en virgules
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

        If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True

    End Sub

    Private Sub ListBox1_SelectedIndexChanged(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles ListBox1.SelectedIndexChanged

    End Sub

    Private Sub TextBox2_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox2.KeyPress
        'limitation des caractères lettres interdites transformation des
points en virgules
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

        If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True

    End Sub

    Private Sub ListBox2_SelectedIndexChanged(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles ListBox2.SelectedIndexChanged

    End Sub

    Public Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click

        'demande valeur si non saisie

        While TextBox1.Text = ""

            MsgBox("veuillez entrer une valeur de volume", 16 + vbYes + 0,
"Attention")

            Exit Sub

        End While

```

```

While TextBox3.Text = ""

    MsgBox("veuillez entrer une valeur de perte au feu (mettre 0 si
inconnue)", 16 + vbYes + 0, "Attention")

    Exit Sub

End While

Form4.Show()

'pertes aux feu

Form4.TextBox1.Text = TextBox1.Text * (1 + ((TextBox3.Text * 2.5) /
100))

'calcul poids

If ListBox2.SelectedItem = "acier" Then

    Form4.TextBox2.Text = Form4.TextBox1.Text * 0.00785

End If

If ListBox2.SelectedItem = "aluminium" Then

    Form4.TextBox2.Text = Form4.TextBox1.Text * 0.0027

End If

If ListBox2.SelectedItem = "laiton" Then

    Form4.TextBox2.Text = Form4.TextBox1.Text * 0.0084

End If

If ListBox2.SelectedItem = "cuivre" Then

    Form4.TextBox2.Text = Form4.TextBox1.Text * 0.00892

End If

If ListBox2.SelectedItem = "titane" Then

    Form4.TextBox2.Text = Form4.TextBox1.Text * 0.004507

End If

'calcul dimensions lopin selon selection

If ListBox1.SelectedItem = "carré" Then

    Form4.TextBox4.Text = Form4.TextBox1.Text / (TextBox2.Text ^ 2)

End If

```

```

        If ListBox1.SelectedItem = "rond" Then

            Form4.TextBox4.Text = Form4.TextBox1.Text / (((3.141592654 *
(TextBox2.Text) ^ 2) / 4))

        End If

        Form4.TextBox3.Text = TextBox2.Text

    End Sub

    Public Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click

        'effacement des textbox avec bouton annuler

        TextBox1.Text = ""
        TextBox3.Text = ""
        TextBox2.Text = ""
        ListBox1.SelectedIndices.Clear()
        ListBox2.SelectedIndices.Clear()

    End Sub

    Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button3.Click
        Close()
    End Sub

    Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox1.TextChanged

    End Sub

    Private Sub TextBox2_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox2.TextChanged

    End Sub
End Class

```

Form "module calcul des dimensions à partir du volume » :

```
Public Class Form8
    Private Sub Form8_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        'remplissage des listbox

        ListBox1.Items.Add("acier")
        ListBox1.Items.Add("aluminium")
        ListBox1.Items.Add("laiton")
        ListBox1.Items.Add("cuivre")
        ListBox1.Items.Add("titane")

    End Sub

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click

        'demande valeur si non saisie

        While TextBox1.Text = ""

            MsgBox("veuillez entrer une valeur de volume", 16 + vbYes + 0,
"Attention")

            Exit Sub

        End While

        While TextBox2.Text = ""

            MsgBox("veuillez entrer une valeur de perte au feu (mettre 0 si
inconnue)", 16 + vbYes + 0, "Attention")

            Exit Sub

        End While

        While TextBox3.Text = "" And RadioButton3.Checked = True

            MsgBox("veuillez entrer une valeur de côté ou diamètre ", 16 +
vbYes + 0, "Attention")

            Exit Sub

        End While

        While RadioButton4.Checked = True And TextBox3.Text = ""

            MsgBox("Veuillez Entrer la valeur de la longueur", 16 + vbYes +
0, "Attention")

            Exit Sub

        End While

        While RadioButton1.Checked = False And RadioButton2.Checked = False
```

```

        MsgBox("Veuillez choisir la forme du lopin de départ", 16 +
vbYes + 0, "Attention")

        Exit Sub

    End While

    While RadioButton3.Checked = False And RadioButton4.Checked = False

        MsgBox("Veuillez Indiquer la dimension connue", 16 + vbYes + 0,
"Attention")

        Exit Sub

    End While

    Form4.Show()

    Form4.TextBox1.Text = Me.TextBox1.Text + ((Me.TextBox1.Text * 2.5)
/ 100) * Me.TextBox2.Text)

    'calcul poids

    If ListBox1.SelectedItem = "acier" Then

        Form4.TextBox2.Text = Form4.TextBox1.Text * 0.00785

    End If

    If ListBox1.SelectedItem = "aluminium" Then

        Form4.TextBox2.Text = Form4.TextBox1.Text * 0.0027

    End If

    If ListBox1.SelectedItem = "laiton" Then

        Form4.TextBox2.Text = Form4.TextBox1.Text * 0.0084

    End If

    If ListBox1.SelectedItem = "cuivre" Then

        Form4.TextBox2.Text = Form4.TextBox1.Text * 0.00892

    End If

    If ListBox1.SelectedItem = "titane" Then

        Form4.TextBox2.Text = Form4.TextBox1.Text * 0.004507

    End If

    'calcul des dimensions

    'pour du rond si le diametre est connu

```

```

        If RadioButton1.Checked = True And RadioButton3.Checked = True Then

            Form4.TextBox3.Text = Me.TextBox3.Text

            Form4.TextBox4.Text = Form4.TextBox1.Text / ((3.141592654 *
(Me.TextBox3.Text) ^ 2) / 4)

        End If

        'pour du rond avec la longueur connue

        If RadioButton1.Checked = True And RadioButton4.Checked = True Then

            Form4.TextBox4.Text = Me.TextBox3.Text + (((TextBox3.Text *
2.5) / 100) * Me.TextBox2.Text)

            Form4.TextBox3.Text = (((Form4.TextBox1.Text /
Form4.TextBox4.Text) * 4) / 3.141592654) ^ 0.5

        End If

        'pour du carré avec la valeur du coté connu

        If RadioButton2.Checked = True And RadioButton3.Checked = True Then

            Form4.TextBox3.Text = Me.TextBox3.Text

            Form4.TextBox4.Text = Form4.TextBox1.Text / (Me.TextBox3.Text ^
2)

        End If

        If RadioButton2.Checked = True And RadioButton4.Checked = True Then

            Form4.TextBox4.Text = Me.TextBox3.Text + ((TextBox3.Text * 2.5)
/ 100)

            Form4.TextBox3.Text = (Form4.TextBox1.Text /
Form4.TextBox4.Text) ^ 0.5

        End If

    End Sub

    Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button3.Click

        'effacement et fermeture du formulaire

        TextBox1.Text = ""
        TextBox2.Text = ""
        TextBox3.Text = ""
        ListBox1.SelectedIndices.Clear()

```

```

        Me.Close()

    End Sub

    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click

        'effacement des saisies

        TextBox1.Text = ""
        TextBox2.Text = ""
        TextBox3.Text = ""
        ListBox1.SelectedIndices.Clear()

    End Sub

    Private Sub TextBox1_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox1.KeyPress
        'limitation des caractères lettres interdites transformation des
points en virgules
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

        If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True

    End Sub

    Private Sub TextBox2_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox2.KeyPress
        'limitation des caractères lettres interdites transformation des
points en virgules
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

        If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True

    End Sub

    Private Sub TextBox3_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox3.KeyPress
        'limitation des caractères lettres interdites transformation des
points en virgules
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

        If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

```

```

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True
    End Sub

    Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox1.TextChanged

    End Sub
End Class

```

Form «Module forge libre : calculs»:

```

Public Class Form4

    Public Sub Form4_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load

    End Sub

    Public Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        'effacement des textbox avant de quitter

        TextBox1.Text = " "
        TextBox2.Text = " "
        TextBox3.Text = " \"
        TextBox4.Text = " "
        Me.Close()
    End Sub

    Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox1.TextChanged

    End Sub

    Private Sub TextBox2_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox2.TextChanged

    End Sub

    Private Sub TextBox3_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox3.TextChanged

    End Sub

    Private Sub TextBox4_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox4.TextChanged

    End Sub

    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click

        'exportations des résultats
        Form5.Show()

        Form5.TextBox2.Text = Me.TextBox1.Text

        Me.Close()
    End Sub
End Class

```

Form «Module estampage/matricage : données» :

```
Public Class Form5
```

```
    Public Sub Form5_Load(ByVal sender As System.Object, ByVal e As  
System.EventArgs) Handles MyBase.Load
```

```
        'ajout des item dans listbox matériaux
```

```
        ListBox1.Items.Add("acier")  
        ListBox1.Items.Add("aluminium")  
        ListBox1.Items.Add("laiton")  
        ListBox1.Items.Add("cuivre")  
        ListBox1.Items.Add("titane")
```

```
    End Sub
```

```
    Public Sub ListBox1_SelectedIndexChanged(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles ListBox1.SelectedIndexChanged
```

```
    End Sub
```

```
    Private Sub TextBox2_KeyPress(ByVal sender As Object, ByVal e As  
System.Windows.Forms.KeyPressEventArgs) Handles TextBox2.KeyPress
```

```
        'limitation des caractères lettres interdites transformation des  
points en virgules
```

```
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","
```

```
        If Asc(e.KeyChar) = 44 And (CType(sender,  
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then  
e.Handled = True
```

```
        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>  
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =  
True
```

```
    End Sub
```

```
    Private Sub TextBox1_KeyPress(ByVal sender As Object, ByVal e As  
System.Windows.Forms.KeyPressEventArgs) Handles TextBox1.KeyPress
```

```
        'limitation des caractères lettres interdites transformation des  
points en virgules
```

```
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","
```

```
        If Asc(e.KeyChar) = 44 And (CType(sender,  
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then  
e.Handled = True
```

```
        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>  
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =  
True
```

```
    End Sub
```

```
    Private Sub TextBox3_KeyPress(ByVal sender As Object, ByVal e As  
System.Windows.Forms.KeyPressEventArgs) Handles TextBox3.KeyPress
```

```
        'limitation des caractères lettres interdites transformation des  
points en virgules
```

```
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","
```

```

        If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True

    End Sub

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click

        'demande de la valeur si non saisie

        While TextBox2.Text = ""

            MsgBox("veuillez entrer une valeur de volume", 16 + vbYes + 0,
"Attention")

            Exit Sub

        End While

        While TextBox1.Text = ""

            MsgBox("veuillez entrer la valeur L ou D (mettre 0 si
inconnue)", 16 + vbYes + 0, "Attention")

            Exit Sub

        End While

        While TextBox3.Text = ""

            MsgBox("veuillez entrer la valeur de e (mettre 0 si inconnue)",
16 + vbYes + 0, "Attention")

            Exit Sub

        End While

        While TextBox4.Text = ""

            MsgBox("veuillez entrer la valeur pour h", 16 + vbYes + 0,
"Attention")

            Exit Sub

        End While

        Form6.Show()

        Form6.TextBox1.Text = TextBox2.Text

        'calcul masse

        If ListBox1.SelectedItem = "acier" Then

            Form6.TextBox2.Text = TextBox2.Text * 0.00785

```

```

End If

If ListBox1.SelectedItem = "aluminium" Then
    Form6.TextBox2.Text = TextBox2.Text * 0.0027
End If

If ListBox1.SelectedItem = "laiton" Then
    Form6.TextBox2.Text = TextBox2.Text * 0.0084
End If

If ListBox1.SelectedItem = "cuivre" Then
    Form6.TextBox2.Text = TextBox2.Text * 0.00892
End If

If ListBox1.SelectedItem = "titane" Then
    Form6.TextBox2.Text = TextBox2.Text * 0.004507
End If

'calcul du cordon et logement de bavure
Form6.TextBox8.Text = TextBox1.Text
Form6.TextBox3.Text = (0.032 * TextBox1.Text) + 4.3
Form6.TextBox4.Text = (0.065 * TextBox1.Text) + 17

If Form6.TextBox4.Text < 20 Then
    Form6.TextBox4.Text = 20
End If

Form6.TextBox6.Text = (0.018 * TextBox1.Text) + 1.3

If Form6.TextBox6.Text < 3 Then
    Form6.TextBox6.Text = 3
End If

Form6.TextBox7.Text = (0.0065 * TextBox1.Text) + 0.7

'calcul complexité
Form6.TextBox9.Text = TextBox4.Text / TextBox3.Text

If RadioButton1.Checked = True Then
    Form6.TextBox10.Text = TextBox5.Text / TextBox1.Text
ElseIf RadioButton2.Checked = True Then

```

```

        Form6.TextBox10.Text = (2 * TextBox5.Text) / TextBox1.Text

    ElseIf RadioButton1.Checked = False And RadioButton2.Checked =
False Then

        MsgBox("Veuillez choisir un type de relevé", 16 + vbYes + 0,
"Attention")

        Exit Sub

    End If

    'détermination de la complexité rapport h/e

    If Form6.TextBox9.Text <= 1 Then

        Form6.TextBox12.Text = "Pièce extra simple (Pas de filage)"

    ElseIf Form6.TextBox9.Text > 1 And Form6.TextBox9.Text <= 1.5 Then

        Form6.TextBox12.Text = "Pièce simple (pas de filage)"

    ElseIf Form6.TextBox9.Text > 1.5 And Form6.TextBox9.Text <= 2 Then

        Form6.TextBox12.Text = "Pièce semi-simple (filage
insignifiant)"

    ElseIf Form6.TextBox9.Text > 2 And Form6.TextBox9.Text <= 2.5 Then

        Form6.TextBox12.Text = "Pièce semi-complexe (léger filage)"

    ElseIf Form6.TextBox9.Text > 2.5 And Form6.TextBox9.Text <= 3 Then

        Form6.TextBox12.Text = "Pièce complexe (filage important)"

    ElseIf Form6.TextBox9.Text > 3 Then

        Form6.TextBox12.Text = "Pièce très complexe (filage très
important)"

    End If

    'détermination de la complexité rapport r/l ou 2r/D

    If Form6.TextBox10.Text > 0.035 Then

        Form6.TextBox13.Text = "Pièce extra simple (Pas de filage)"

    ElseIf Form6.TextBox10.Text <= 0.035 And Form6.TextBox10.Text >
0.032 Then

        Form6.TextBox13.Text = "Pièce simple (pas de filage)"

    ElseIf Form6.TextBox10.Text <= 0.032 And Form6.TextBox10.Text >
0.029 Then

        Form6.TextBox13.Text = "Pièce semi-simple (filage
insignifiant)"

```

```

    ElseIf Form6.TextBox10.Text <= 0.029 And Form6.TextBox10.Text >
0.027 Then

        Form6.TextBox13.Text = "Pièce semi-complexe (léger filage)"

    ElseIf Form6.TextBox10.Text <= 0.027 And Form6.TextBox10.Text >
0.025 Then

        Form6.TextBox13.Text = "Pièce complexe (filage important)"

    ElseIf Form6.TextBox10.Text < 0.025 Then

        Form6.TextBox13.Text = "Pièce très complexe (filage très
important)"

    End If

    'calcul rapport lambda sur epsilon
    Dim i As Decimal

    For i = 0 To 20

    Next

    i = Form6.TextBox10.Text

    If i > 0.036 Then

        Form6.TextBox14.Text = "3,75"

    ElseIf i <= 0.036 And i > 0.035 Then

        Form6.TextBox14.Text = "4"

    ElseIf i <= 0.035 And i > 0.0335 Then

        Form6.TextBox14.Text = "4,25"

    ElseIf i <= 0.0335 And i > 0.032 Then

        Form6.TextBox14.Text = "4,5"

    ElseIf i <= 0.032 And i > 0.0315 Then

        Form6.TextBox14.Text = "4,75"

    ElseIf i <= 0.0315 And i > 0.029 Then

        Form6.TextBox14.Text = "5"

    ElseIf i <= 0.029 And i > 0.028 Then

        Form6.TextBox14.Text = "5,25"

    ElseIf i <= 0.028 And i > 0.027 Then

        Form6.TextBox14.Text = "5,5"

```

```

ElseIf i <= 0.027 And i > 0.026 Then

    Form6.TextBox14.Text = "5,75"

ElseIf i <= 0.026 And i > 0.025 Then

    Form6.TextBox14.Text = "6"

ElseIf i <= 0.025 And i > 0.023 Then

    Form6.TextBox14.Text = "6,25"

ElseIf i <= 0.023 Then

    Form6.TextBox14.Text = "6,5"
End If

'calcul epsilon

Dim a As Double
Dim b As Double
a = Form6.TextBox14.Text
b = Form6.TextBox3.Text
Form6.TextBox5.Text = a / b

If Form6.TextBox5.Text < 1.5 Then

    Form6.TextBox5.Text = 1.5

End If

'détermination de p et de q

If i > 0.036 Then

    Form6.TextBox11.Text = "490"
    Form6.TextBox15.Text = "280"

ElseIf i <= 0.036 And i > 0.035 Then

    Form6.TextBox11.Text = "490"
    Form6.TextBox15.Text = "280"

ElseIf i <= 0.035 And i > 0.0335 Then

    Form6.TextBox11.Text = "500"
    Form6.TextBox15.Text = "285"

ElseIf i <= 0.0335 And i > 0.032 Then

    Form6.TextBox11.Text = "520"
    Form6.TextBox15.Text = "290"

ElseIf i <= 0.032 And i > 0.0315 Then

    Form6.TextBox11.Text = "540"
    Form6.TextBox15.Text = "300"

ElseIf i <= 0.0315 And i > 0.029 Then

```

```

        Form6.TextBox11.Text = "560"
        Form6.TextBox15.Text = "310"

    ElseIf i <= 0.029 And i > 0.028 Then

        Form6.TextBox11.Text = "580"
        Form6.TextBox15.Text = "320"

    ElseIf i <= 0.028 And i > 0.027 Then

        Form6.TextBox11.Text = "600"
        Form6.TextBox15.Text = "330"

    ElseIf i <= 0.027 And i > 0.026 Then

        Form6.TextBox11.Text = "625"
        Form6.TextBox15.Text = "350"

    ElseIf i <= 0.026 And i > 0.025 Then

        Form6.TextBox11.Text = "650"
        Form6.TextBox15.Text = "360"

    ElseIf i <= 0.025 And i > 0.023 Then

        Form6.TextBox11.Text = "690"
        Form6.TextBox15.Text = "370"

    ElseIf i <= 0.023 Then

        Form6.TextBox11.Text = "720"
        Form6.TextBox15.Text = "380"

    End If

    'v total

    If RadioButton1.Checked = True Then

        Form6.TextBox16.Text = TextBox2.Text + (((Form6.TextBox3.Text *
        Form6.TextBox5.Text) * TextBox1.Text)) * 2)

    ElseIf RadioButton2.Checked = True Then

        Form6.TextBox16.Text = TextBox2.Text + ((Form6.TextBox3.Text *
        Form6.TextBox5.Text) * 2 * 3.141592654 * ((TextBox1.Text / 2) +
        ((Form6.TextBox3.Text * Form6.TextBox5.Text) / 2)))

    End If

    'masse totale

    If ListBox1.SelectedItem = "acier" Then

        Form6.TextBox17.Text = Form6.TextBox16.Text * 0.00785

    End If

    If ListBox1.SelectedItem = "aluminium" Then

```

```

        Form6.TextBox17.Text = Form6.TextBox16.Text * 0.0027

    End If

    If ListBox1.SelectedItem = "laiton" Then

        Form6.TextBox17.Text = Form6.TextBox16.Text * 0.0084

    End If

    If ListBox1.SelectedItem = "cuivre" Then

        Form6.TextBox17.Text = Form6.TextBox16.Text * 0.00892

    End If

    If ListBox1.SelectedItem = "titane" Then

        Form6.TextBox17.Text = Form6.TextBox16.Text * 0.004507

    End If

End Sub

Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click

    'effacement des textbox avec bouton annuler

    TextBox1.Text = ""
    TextBox3.Text = ""
    TextBox2.Text = ""
    TextBox4.Text = ""
    TextBox5.Text = ""
    ListBox1.SelectedIndices.Clear()

End Sub

Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button3.Click
    Close()

End Sub

Private Sub PictureBox1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs)

End Sub

Private Sub TextBox4_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox4.KeyPress
    'limitation des caractères lettres interdites transformation des
points en virgules
    If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

    If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

```

```

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True

    End Sub

    Private Sub TextBox5_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox5.KeyPress
        'limitation des caractères lettres interdites transformation des
points en virgules
        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

        If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True

    End Sub

    Private Sub TextBox4_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox4.TextChanged

    End Sub

    Public Sub TextBox3_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox3.TextChanged

    End Sub

    Private Sub TextBox5_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox5.TextChanged

    End Sub

    Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox1.TextChanged

    End Sub

    Private Sub RadioButton1_CheckedChanged(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles RadioButton1.CheckedChanged

    End Sub

    Private Sub RadioButton2_CheckedChanged(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles RadioButton2.CheckedChanged

    End Sub

    Private Sub TextBox2_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox2.TextChanged

    End Sub
End Class

```

Form «Module estampage/matricage : calculs» :

```
Public Class Form6

    Public Sub Form6_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load

        End Sub

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click

        'effacement es textbox avant fermeture pour éviter un eventuel bug

        TextBox1.Text = " "
        TextBox3.Text = " "
        TextBox2.Text = " "
        TextBox4.Text = " "
        TextBox5.Text = " "
        TextBox6.Text = " "
        TextBox7.Text = " "
        TextBox8.Text = " "
        TextBox9.Text = " "
        TextBox10.Text = " "
        TextBox11.Text = " "
        TextBox12.Text = " "
        TextBox13.Text = " "
        TextBox14.Text = " "
        TextBox15.Text = " "
        TextBox16.Text = " "
        TextBox17.Text = " "

Me.Close()

    End Sub

    Private Sub PictureBox1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles PictureBox1.Click

        End Sub

    Private Sub PictureBox2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs)

        End Sub

    Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox1.TextChanged

        End Sub

    Private Sub TextBox2_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox2.TextChanged

        End Sub
```

```

    Private Sub TextBox9_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox9.TextChanged

        End Sub

    Private Sub TextBox10_TextChanged(ByVal sender As System.Object, ByVal
e As System.EventArgs) Handles TextBox10.TextChanged

        End Sub

    Private Sub TextBox11_TextChanged(ByVal sender As System.Object, ByVal
e As System.EventArgs)

        End Sub

    Private Sub TextBox8_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox8.TextChanged

        End Sub

    Private Sub TextBox7_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox7.TextChanged

        End Sub

    Private Sub TextBox3_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs)

        'limitation des caractères

        If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

        If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

        If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True

        End Sub

    Private Sub TextBox5_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs)

        End Sub

    Private Sub TextBox4_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox4.TextChanged

        End Sub

    Private Sub TextBox6_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox6.TextChanged

        End Sub

    Private Sub TextBox5_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs)

```

```

'limitation des caractères

If Asc(e.KeyChar) = 46 Then e.KeyChar = ","

    If Asc(e.KeyChar) = 44 And (CType(sender,
TextBox).Text.IndexOf(",") > 0 Or CType(sender, TextBox).Text = "") Then
e.Handled = True

    If Char.IsDigit(e.KeyChar) = False And Asc(e.KeyChar) <>
System.Windows.Forms.Keys.Back And Asc(e.KeyChar) <> 44 Then e.Handled =
True

End Sub

Private Sub Label6_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Label6.Click

End Sub

Private Sub TextBox11_TextChanged_1(ByVal sender As System.Object,
ByVal e As System.EventArgs)

End Sub

Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs)

End Sub

Private Sub TextBox12_TextChanged(ByVal sender As System.Object, ByVal
e As System.EventArgs) Handles TextBox12.TextChanged

End Sub

Private Sub Label12_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Label12.Click

End Sub

Private Sub TextBox13_TextChanged(ByVal sender As System.Object, ByVal
e As System.EventArgs) Handles TextBox13.TextChanged

End Sub
Private Sub TextBox14_TextChanged(ByVal sender As System.Object, ByVal
e As System.EventArgs)

End Sub

Private Sub TextBox5_TextChanged_1(ByVal sender As System.Object, ByVal
e As System.EventArgs)

End Sub

Private Sub TextBox3_TextChanged(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles TextBox3.TextChanged

End Sub

```

```
Private Sub TextBox15_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles TextBox15.TextChanged
```

```
End Sub
```

```
Private Sub TextBox5_TextChanged_2(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles TextBox5.TextChanged
```

```
End Sub
```

```
Private Sub TextBox16_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles TextBox16.TextChanged
```

```
End Sub
```

```
Private Sub TextBox17_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles TextBox17.TextChanged
```

```
End Sub
```

```
Private Sub Button3_Click_1(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button3.Click
```

```
'exportation des résultats en .txt
```

```
Dim DialogSaveFile As New SaveFileDialog
```

```
With DialogSaveFile
```

```
.InitialDirectory = "C:"
```

```
.Title = "Enregister sous"
```

```
.Filter = "Fichiers .txt (*.txt)|*.txt"
```

```
.ShowDialog()
```

```
DialogSaveFile.CreatePrompt = True
```

```
DialogSaveFile.OverwritePrompt = True
```

```
If Err.Number = 32755 Then Exit Sub
```

```
If Len(.FileName) = 0 Then Exit Sub
```

```
Dim sFile As String = .FileName
```

```
'exportation des résultats en .txt
```

```
'Dim DateJour As String
```

```
'DateJour = Date.Now.ToString("ddMMyy")
```

```

Dim SWGlobal As System.IO.StreamWriter = New IO.StreamWriter(sFile)
SWGlobal.WriteLine("")
SWGlobal.Write("-----")
SWGlobal.WriteLine("")
SWGlobal.Write("--The Little Blachsmith V3--")
SWGlobal.WriteLine("")
SWGlobal.Write("--Module Estampage/Matiçage---")
SWGlobal.WriteLine("")
SWGlobal.Write("-----")
SWGlobal.WriteLine("")
SWGlobal.WriteLine("")
SWGlobal.Write("")
SWGlobal.Write("Volume pièce sans bavure en mm3 : ")
SWGlobal.WriteLine(TextBox1.Text)
SWGlobal.Write("Masse pièce sans bavure en g : ")
SWGlobal.WriteLine(TextBox2.Text)
SWGlobal.Write("Valeur lambda en mm : ")
SWGlobal.WriteLine(TextBox3.Text)
SWGlobal.Write("Valeur de D ou L : ")
SWGlobal.WriteLine(TextBox8.Text)
SWGlobal.Write("Valeur de b : ")
SWGlobal.WriteLine(TextBox4.Text)
SWGlobal.Write("Valeur de h : ")
SWGlobal.WriteLine(TextBox6.Text)
SWGlobal.Write("Valeur de r : ")
SWGlobal.WriteLine(TextBox7.Text)
SWGlobal.Write("Valeur de b : ")
SWGlobal.WriteLine(TextBox4.Text)
SWGlobal.Write("Valeur de epsilon : ")
SWGlobal.WriteLine(TextBox5.Text)
SWGlobal.Write("Volume pièce avec bavure en mm3 : ")
SWGlobal.WriteLine(TextBox16.Text)
SWGlobal.Write("Masse pièce avec bavure en g : ")
SWGlobal.WriteLine(TextBox17.Text)
SWGlobal.WriteLine("")
SWGlobal.Write("-----")
SWGlobal.WriteLine("")
SWGlobal.Write("-----Détermination de la complexité-----")
SWGlobal.WriteLine("")
SWGlobal.Write("-----")
SWGlobal.WriteLine("")
SWGlobal.WriteLine("")
SWGlobal.Write("Rapport lambda/e : ")
SWGlobal.WriteLine(TextBox9.Text)
SWGlobal.Write("Rapport r/L ou 2r/D : ")
SWGlobal.WriteLine(TextBox10.Text)
SWGlobal.WriteLine("")
SWGlobal.Write("Complexité en fonction du rapport h/e : ")
SWGlobal.WriteLine("")
SWGlobal.WriteLine(TextBox12.Text)
SWGlobal.WriteLine("")
SWGlobal.WriteLine("")
SWGlobal.Write("Complexité en fonction du rapport r/L ou 2r/L : ")
SWGlobal.WriteLine("")
SWGlobal.WriteLine(TextBox13.Text)
SWGlobal.WriteLine("")
SWGlobal.WriteLine("")
SWGlobal.Write("-----")
---")
SWGlobal.WriteLine("")

```

```

        SWGlobal.Write("-Rappel:   le   critère   d'acuité   d'arête   est
prépondérant-")
        SWGlobal.WriteLine("")
        SWGlobal.Write("-----")
---")
        SWGlobal.WriteLine("")
        SWGlobal.WriteLine("")
        SWGlobal.Write("Rapport Lambda/Epsilon : ")
        SWGlobal.WriteLine(TextBox14.Text)
        SWGlobal.WriteLine("")
        SWGlobal.Write("Valeur de P : ")
        SWGlobal.WriteLine(TextBox11.Text)
        SWGlobal.Write("Valeur de q : ")
        SWGlobal.WriteLine(TextBox15.Text)
        SWGlobal.WriteLine("")
        SWGlobal.Write("p = contrainte exercée sur la pièce en MPa à
1050 °C")
        SWGlobal.WriteLine("")
        SWGlobal.Write("q = contrainte exercée sur le cordon de bavure en
MPa à 950 °C")
        SWGlobal.WriteLine("")
        SWGlobal.WriteLine("")
        SWGlobal.WriteLine("")
        SWGlobal.Write("C'est en forgeant que l'on devient forgeron...")
        SWGlobal.WriteLine("")
        SWGlobal.Write("...Mais c'est pas en se noyant que l'on apprend à
nager")
        SWGlobal.WriteLine("")
        SWGlobal.WriteLine("")
        SWGlobal.Write("--TLB V3--Michalowski Florian--ESFF 2009--")

        SWGlobal.Close()

End Sub

Private Sub TextBox11_TextChanged_2(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles TextBox11.TextChanged

End Sub

Private Sub TextBox14_TextChanged_1(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles TextBox14.TextChanged

End Sub

End Class

```

Module:

Module Module1

Public quit As Integer

Public n As Object
Public i As Object

Public carré As Boolean

Public rond As Boolean

Public titane As Boolean
Public laiton As Boolean
Public acier As Boolean
Public cuivre As Boolean
Public aluminium As Boolean

End Module