VBA code to set the parameter value.

```
Private Sub CommandButton1_Click()
  ' code to ccess a Part document.
   Dim InvDoc As PartDocument
   Set InvDoc = ThisApplication.ActiveDocument

   ' code to access the parameters
   Dim InvPar As Parameters
   Set InvPar = InvDoc.ComponentDefinition.Parameters

   ' code to access model parameters
   Dim ModPar As ModelParameters
   Set ModPar = InvPar.ModelParameters

   ‘ code to change the parameter value
   ModPar.Item("screw_diameter").Value = Val(TextBox1) / 10
   ModPar.Item("length").Value = Val(TextBox2) / 10
   ModPar.Item("rod_diameter").Value = Val(TextBox3) / 10
   ModPar.Item("plate_thickness").Value = Val(TextBox4) / 10
   ModPar.Item("pitch").Value = Val(TextBox5) / 10

   ' code to update document
   InvDoc.Update

End Sub

Private Sub UserForm_Activate()

  ' code to ccess a Part document.
   Dim InvDoc As PartDocument
   Set InvDoc = ThisApplication.ActiveDocument

   ' code to access the parameters
   Dim InvPar As Parameters
   Set InvPar = InvDoc.ComponentDefinition.Parameters

   ' code to access model parameters
   Dim ModPar As ModelParameters
   Set ModPar = InvPar.ModelParameters

   ‘ code to read the parameter value
   TextBox1.Text = (ModPar.Item("screw_diameter").Value) * 10
   TextBox2.Text = (ModPar.Item("length").Value) * 10
   TextBox3.Text = (ModPar.Item("rod_diameter").Value) * 10
   TextBox4.Text = (ModPar.Item("plate_thickness").Value) * 10
   TextBox5.Text = (ModPar.Item("pitch").Value) * 10

End Sub
```

iLogic Statement:

"Pitch" rule:

```
If screw_type = "Standard Pitch" Then
    pitch = screw_diameter
ElseIf screw_type = "Half Pitch" Then
    pitch = screw_diameter*0.5
ElseIf screw_type = "Short Pitch" Then
    pitch = screw_diameter*(2/3)
ElseIf screw_type = "Long Pitch" Then
    pitch = screw_diameter*1.5
End If
```

"Material" rule:

```
If screw_material="Gold" Then
    iProperties.Material="Gold"
ElseIf screw_material="Steel, Mild" Then
    iProperties.Material="Steel, Mild"
ElseIf screw_material="Rubber" Then
    iProperties.Material="Rubber"
ElseIf screw_material="Lead" Then
    iProperties.Material="Lead"
End If
```

"New" rule:

```
iLogicForm.Show("Screw Conveyor Configurator")
ThisApplication.ActiveView.Fit
```