Ex: Design a program to calculate the value of (A) from the equation below:

\[ A = \left| \frac{B^2 \cdot C^3}{\sqrt[4]{D}} - \tan^{-1}(x) \cdot \frac{M^2 \cdot e^F}{\cos(x)} \right| \]

Where:

- \( B = 6.52 \)
- \( C = 2.13 \times 10^3 \)
- \( D = 7.1 \times 10^{15} \)
- \( M = 8.511 \times 10^7 \)
- \( F = 5.74 \times 10^{-19} \)
- \( x = 60 \)

Create a (Label) object and a (Text Box) object for each parameter of the equation and two (Command Buttons), one for exit from the program and the other one is for making the calculations.

So:

1- The design part: The programmer can design the program as below:

![Program Interface](image)

2- The coding part: the programmer must write the codes as below:
Private Sub Command1_Click()

b = Val(Text1.Text)

C = Val(Text2.Text)

d = Val(Text3.Text)

x = Val(Text4.Text)

m = Val(Text5.Text)

f = Val(Text6.Text)

pi = 22 / 7

mm = ((x * pi) / 180)

qq1 = ((b ^ 2 * C ^ 3) / (d ^ (1 / 4)))

qq2 = Atn(x) * (180 / pi)

qq3 = ((m ^ 2 * Exp(f)) / Cos(mm))

a = Abs(qq1 - (qq2 * qq3))

Text7.Text = a

End Sub

Private Sub Command2_Click()

End

End Sub

The user must move the mouse to the text property of each (Text box) object and input the number of each parameter of the equation.
**Ex:** Design a program to calculate the value of \((y)\) from the equation below:

\[
y = \left| \frac{\sqrt[6]{B} - \frac{M^3}{F} + \sin(x)}{C \cdot D^3} \right|
\]

Where:

\[
B = 0.14 \times 10^{+43}, \quad C = -45.87, \quad D = 1.1 \times 10^{+12}, \quad M = 5.89 \times 10^{-8}, \quad F = 1.5 \times 10^{+9}, \quad x = 30.
\]

Create a (Label) object and a (Text Box) object for each parameter of the equation and two (Command Buttons), one for exit from the program and the other one is for making the calculations.

So:

1- The design part: The programmer can design the program as below:

![Image of a program design](image1)

2- The coding part: the programmer must write the codes as below:
Private Sub Command1_Click()
  b = Val(Text1.Text)
  c = Val(Text2.Text)
  d = Val(Text3.Text)
  x = Val(Text4.Text)
  m = Val(Text5.Text)
  f = Val(Text6.Text)
  pi = 22 / 7
  mm = ((x * pi) / 180)
  ww1 = (b ^ (1 / 6) / (d ^ 3 * Abs(c)))
  ww2 = m ^ 3 / f
  y = ww1 - ww2 + Sin(x * mm)
  y = Abs(y)
  Text7.Text = y
End Sub

Private Sub Command2_Click()
End
End Sub

The user must move the mouse to the text property of each (Text box) object and input the number of each parameter of the equation.