Ex: Calculate the values of (y, q, h and d) from the equations below:

\[
y = x^2 \quad \text{q} = y + x \quad \text{h} = x^3 \quad \text{d} = \sqrt{h \times 1.98 \times 10^{36}}
\]

Take (x) values in the range (1-10). Print the results on the form by the font (Arial), (Bold) with the size (14). Create a command button to exit from the program.

So:

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

2- Coding part: The coding part might be written as below:

Private Sub Command1_Click()
End
Private Sub Form_Activate()
Font.Name = "Times New Roman"
Font.Bold = True
Font.Size = 14
x = 1
start:
If x < 11 Then
y = x ^ 2
q = y + x
h = x ^ 3
d = Sqr(1.98E+36 * h)
Print "x ="; x, "y ="; y, "q ="; q, "h ="; h, "d ="; d
x = x + 1
GoTo start
End If

Ex: Calculate the values of (y) from the equations below:

\[ y = \frac{a}{b} \]

\[ b = \frac{\sqrt[3]{c}}{d} \]
\[ d = h \times q \]

Where: \( a = 3.4 \times 10^{-55} \), \( c = \frac{22}{7} \), \( h = 47.21 \times 10^{-15} \), \( q = 6 \times 10^{441} \)

Print all the parameters of the equations on the form then print the results (each calculate for each equation on a separated new line), use (Simplified Arabic) font, (Bold) with the size (14). Create a command button to exit from the program.

So:

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

![Design part diagram]

2- Coding part: The coding part might be written as below:

```vbnet
Private Sub Command1_Click()
End
End Sub
```
Private Sub Form_Activate( )

Font.Name = "Simplified Arabic"
Font.Bold = True
Font.Size = 14
a = 3.4E+55

c = 22 / 7

h = 4.721E-14
q = 6E+41

d = h * q
b = ((c ^ (1 / 3)) / d)
y = (a / b)

Print "a =" ; a, " c =" ; c, " h =" ; h, " q =" ; q
Print "d =" ; d
Print "b =" ; b
Print "y =" ; y

End Sub