# Programming 4

## Techniques

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| **DO … LOOP** | The Do…Loop structure allows you to repeat code until a condition is true. |

* Present your work on these tasks in a single Word document. Make sure that the document is saved with the filename **Programming 4 Username**, replacing ‘username’ with your username.
* Each time you complete a part of the task, you will need to record that in your document.
* Use task numbers and letters as well as headings and make sure you present your work clearly.
* Use copy and paste to put your code for the programming parts of the task.
* Type your answers to the other questions.

## Task 1

 Dim counter As Integer

 counter = 1

 Do

 Console.WriteLine(counter)

 counter = counter + 1

 Loop While counter <= 10

 Console.ReadLine()

1. Change the program so that it counts from 1 to 12.
2. Change the program so that it counts from 2 to 20, going up in 2s.

## Task 2

 Dim forename As String

 forename = ""

 Do

 Console.Write("Enter your name: ")

 forename = Console.ReadLine()

 Loop Until forename = "Dave"

 Console.WriteLine("Hello Dave.")

 Console.ReadLine()

1. Change the program so that the user must enter your name.
2. Add an IF statement inside the DO..LOOP. If the forename is not yours, tell the user that they have the wrong name.

## Task 3

 Dim choice As Integer

 ' variables for calculations

 Dim first As Integer

 Dim second As Integer

 Dim answer As Integer

 Do

 Console.Clear()

 Console.WriteLine("Menu")

 Console.WriteLine()

 Console.WriteLine("1. Add")

 Console.WriteLine("2. Subtract")

 Console.WriteLine("3. Quit")

 Console.WriteLine()

 Console.Write("Enter your choice: ")

 choice = Console.ReadLine()

 If choice = 1 Then

 Console.Clear()

 Console.WriteLine("Adding Two Numbers")

 ' code to read in, add two numbers and output result

 Console.ReadLine()

 ElseIf choice = 2 Then

 Console.Clear()

 Console.WriteLine("Subtracting Two Numbers")

 ' code to read in, add two numbers and output result

 Console.ReadLine()

 ElseIf choice = 3 Then

 Console.Clear()

 Console.WriteLine("Quiting - Press enter")

 Console.ReadLine()

 Else

 Console.WriteLine("Invalid input")

 Console.ReadLine()

 End If

 Loop Until choice = 3

1. Complete this program.
2. Add the necessary code to add multiplication and division options. Remember that the answer to a division may not be a whole number and that you will need to use the double data type to store the answer to such a question. Include screenshots to show how you tested your program.