



## Computer Science Taster Work

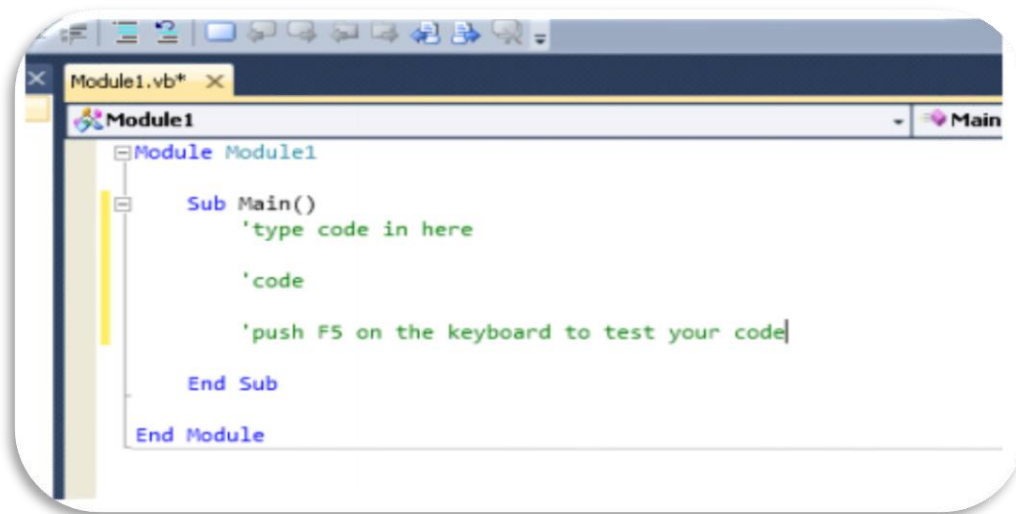
In this activity the main concept is to develop a basic console application using VB.Net.

**Resources:** Download VB.NET for free. You will need to download Visual Studios 2017. Use the following link: <https://visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=Community&rel=15#>

**During installation you might be asked to select the environment you want, select General Development Settings.**

**Objective:** To look at programming basics in order to promote good programming technique.

**Getting started:**



### Task One – Printing to Screen

Enter the following code into the VB.net console screen and print screen the output it produces:

```
1 Module Module1
2 Sub Main()
3     Console.WriteLine("Hello Bilborough")
4     Console.ReadLine()
5 End Sub
6 End Module
```

### Task Two – Read and Store input

Enter the following code into the VB.net console screen and print screen the output it produces:

```
Module Module1
Sub Main()
    dim number as Integer
    Console.WriteLine("Hello Bilborough")
    Console.WriteLine("Please enter a number between 1 and 10")
    number = console.ReadLine()
End Sub
End Module
```

## Task Three – Multiplying Two numbers

Enter the following code into the VB.net console screen and print screen the output it produces:

```
Module Module1
Sub Main()
    dim number1 as Integer
    dim number2 as Integer
    dim answer as Integer
    Console.WriteLine("Hello Bilborough")
    Console.WriteLine("Please enter your first number")
    number1 = console.ReadLine()
    console.WriteLine("Please enter your second number")
    number2 = console.ReadLine()
    answer = number1 * number2
    Console.WriteLine("The answer is " & answer)
    console.ReadLine()
End Sub
End Module
```

### Stretch and Challenge:

- What is a loop?
- What types of loops can we program in VB.NET?
- Construct a small program of your choice that illustrates the use of a loop

## Task Four – Printing asterisks based on a number entered by a user

Write a program that asks the user to input a number between 1– 20. Get your program to display that many stars on screen – see the screenshot below:

Example: This For loop below	
<pre>For a = 10 To 20 Console.WriteLine("value of a: {0}", a) Next</pre>	<pre>value of a: 10 value of a: 11 value of a: 12 value of a: 13 value of a: 14 value of a: 15 value of a: 16 value of a: 17 value of a: 18 value of a: 19 value of a: 20</pre>

### Stretch and Challenge:

Write a program that asks the user to input two positive whole numbers. Your program will then add these two numbers and return a message to screen to tell the user the answer.

