**Programming Solutions**

**Programming Concept: (e.g. Nested IFs)**

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| **Q / TASK** | **Code** | **Console Output** | **Comments/Problems** |
| Class task 1 | Dim count As Integer = 0  Do While count < 46  Console.WriteLine(count)  count += 4  Loop  Console.ReadLine() |  |  |
| Independent  work | Dim password As String = "Tues1212"  Dim Type As String  Dim count As Integer = 0  Dim remain As Integer  Console.WriteLine("type in password")  Type = Console.ReadLine()  Do While ((password <> Type) And (count <> 2))  count += 1  remain = 3 - count  Console.WriteLine("type in password again, remaining time: {0}", remain)  Type = Console.ReadLine()  Loop  If Type = password Then  Console.WriteLine("password accepted")  Else  Console.WriteLine("password rejected")  End If  Console.ReadLine() |  |  |
| Class task 3 | Randomize()  Dim value As Integer = CInt(Int((100 \* Rnd() + 1)))  Dim guess As Integer = -1  Dim count As Integer = 0  Console.WriteLine(value)  Do While value <> guess  Console.WriteLine("type your guess")  guess = Console.ReadLine()  If value > guess Then  Console.WriteLine("too small")  End If  If value < guess Then  Console.WriteLine("too large")  End If  count += 1  Loop  Console.WriteLine("-------=====you guessed it=====-------")  Console.WriteLine("you have guessed {0} times", count)  Console.WriteLine("the number is {0}", value)  Console.ReadLine() |  |  |
| Class task2 | While: condition false => stop running  Check before run | Until: condtion true => stop running  Run once before checking condition |  |
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Note: Please make sure you save this document as ‘**if\_solution\_yourname.doc’**