**Programming Solutions**

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

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| **Q / TASK** | **Code** | **Console Output** | **Comments/Problems** |
| Ex1 | Dim count As Integer  Dim done As Integer  For count = 7 To 1 Step -1  Do Until done = count  Console.Write("\*")  done += 1  Loop  done = 0  Console.WriteLine()  Console.WriteLine()  Next  Console.ReadLine() |  |  |
| Ex2 | Dim count As Integer  Dim starcount As Integer  Dim done As Integer  For count = 1 To 7 Step 1  starcount = 7 - count  Do Until count = done  Console.Write(done + 1)  done += 1  Loop  done = 0  Do Until starcount = done  Console.Write("\*")  done += 1  Loop  done = 0  Console.WriteLine()  Console.WriteLine()  Next  Console.ReadLine() |  |  |
| Ex3 | Dim input As Char  Dim check As String = "y"  Console.WriteLine("What is the command keyword to exit a loop in VB.NET?")  Console.WriteLine("a. int")  Console.WriteLine("b. continue")  Console.WriteLine("c. break")  Console.WriteLine("d. Exit For/Exit While/Exit Do While")  Do Until check <> "y"  Console.Write("Enter your choice: ")  input = Console.ReadLine()  If input <> "d" Then  Console.WriteLine("Incorrect!")  Console.Write("Again? press y to continue: ")  check = Console.ReadLine  Else  Console.WriteLine("Yeah! you are correct")  check = "n"  End If  Loop  Console.WriteLine("program has finished")  Console.ReadLine() |  |  |
| Ex5 | Dim input As Char  Dim check As String = "y"  Console.WriteLine("What is the correct way to declare a variable to an integer value in VB.NET?")  Console.WriteLine("a. int a")  Console.WriteLine("b. Dim a As Single")  Console.WriteLine("c. Dim a As String")  Console.WriteLine("d. Dim a As Integer")  Console.Write("Enter your choice: ")  input = Console.ReadLine()  If input <> "d" Then  Console.WriteLine("Incorrect!")  Console.Write("Again? press y to continue: ")  check = Console.ReadLine  Else  Console.WriteLine("Yeah! you are correct")  check = "n"  End If  Do While check = "y"  Console.Write("Enter your choice: ")  input = Console.ReadLine()  If input <> "d" Then  Console.WriteLine("Incorrect!")  Console.Write("Again? press y to continue: ")  check = Console.ReadLine  Else  Console.WriteLine("Yeah! you are correct")  check = "n"  End If  Loop  Console.WriteLine("program has finished")  Console.ReadLine() |  |  |
| Ex4 | Dim count As Integer  Dim line As Integer  For count = 1 To 122 Step 1  line = 0  Do Until line = 10  Console.Write(Chr(count))  count += 1  line += 1  Loop  Console.WriteLine()  Next  Console.ReadLine() |  |  |
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Note: Please make sure you save this document as ‘**if\_solution\_yourname.doc’**