**Programming Solutions**

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

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| **Q / TASK** | **Code** | **Console Output** | **Comments/Problems** |
| Q1 | Dim type As String  type = 0  Do  Console.WriteLine("Are we there yet")  type = Console.ReadLine()  Loop Until type = 1  Console.WriteLine("wonderful, we have arrived")  Console.ReadLine() |  |  |
| Q2 | Dim type As String  type = 0  Do Until type = 1  Console.WriteLine("Are we there yet")  type = Console.ReadLine()  Loop  Console.WriteLine("wonderful, we have arrived")  Console.ReadLine() |  |  |
| Pair task | Dim type As Integer  Dim total As Single = 0  Dim fever As Integer = 0  Dim count As Single  Dim average As Single  For count = 1 To 7  Console.WriteLine("enter your temperature")  type = Console.ReadLine()  Do Until (type > 30) And (type < 44)  Console.WriteLine("invalid, enter your temperature again")  type = Console.ReadLine()  Loop  total = total + type  If type > 37 Then  fever += 1  Console.WriteLine("fever recorded")  Else  Console.WriteLine("temperature recorded")  End If  Next  average = total / 7  Console.WriteLine("average temp: {0}", Format(average, ".0"))  Console.WriteLine("fever count: {0}", fever)  Console.ReadLine() |  |  |
| Independent  work | Dim sunshine As Single = 0  Dim maxhours As Single = 0  Dim minhours As Single = 100  Dim total As Single = 0  Do Until sunshine = -1  Console.WriteLine("input the sunshine")  sunshine = Console.ReadLine()  If sunshine > maxhours Then  maxhours = sunshine  End If  If (sunshine < minhours) And (sunshine <> -1) Then  minhours = sunshine  End If  total = total + sunshine  Loop  Console.WriteLine("max sunshine: {0}", maxhours)  Console.WriteLine("min sunshine: {0}", minhours)  Console.WriteLine("total sunshine: {0}", total)  Console.ReadLine() |  |  |
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Note: Please make sure you save this document as ‘**if\_solution\_yourname.doc’**