**Programming Solutions**

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

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| **Q / TASK** | **Code** | **Console Output** | **Comments/Problems** |
| task | Sub Main()  Randomize()  Dim letter, chac As String  Dim score As Integer  Dim replay As Boolean = True  Dim total, multi As Integer  Do Until replay = False  Console.WriteLine("enter the words")  letter = Console.ReadLine().ToUpper()  For Each chac In letter  Console.WriteLine()  multi = Int(Rnd() \* 3) + 1  score = Scoreboard(chac)  Console.Write("{0} with {1} score", chac, score)  score = Multiplefunction(multi, score)  total += score  score = 0  Next  Console.WriteLine()  Console.WriteLine("your score: {0}", total)  replay = Replaysub()  Loop  Console.WriteLine("thanks for playing")  Console.ReadLine()  End Sub  Function Scoreboard(x As String)  Dim point As String  Select Case x  Case "D", "G"  point = 2  Case "B", "C", "M", "P"  point = 3  Case "F", "H", "V", "W", "Y"  point = 4  Case "K"  point = 5  Case "J", "X"  point = 8  Case "Q", "Z"  point = 10  Case Else  point = 1  End Select  Return point  End Function  Function Multiplefunction(pmulti As Integer, pscore As Integer)  Select Case pmulti  Case 2  pscore \*= 2  Console.Write(", and double point :{0}", pscore)  Case 3  pscore \*= 3  Console.Write(", and triple point :{0}", pscore)  End Select  Return pscore  End Function  Function Replaysub()  Dim replayinput As String  Dim chose As Boolean  Console.WriteLine("replay? (T or F)")  replayinput = Console.ReadLine().ToUpper()  If replayinput = "T" Then  chose = True  Else  chose = False  End If  Return chose  End Function |  | Retry function,  Double/triple point |
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Note: Please make sure you save this document as ‘**if\_solution\_yourname.doc’**