**Programming Solutions**

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

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| **Q / TASK** | **Code** | **Console Output** | **Comments/Problems** |
| Q1 | Dim num As Integer  Dim message As String  Console.WriteLine("enter the message")  message = Console.ReadLine()  Console.WriteLine("enter number of times you want to repeat")  num = Console.ReadLine()  Console.WriteLine()  For num = 1 To num  Console.WriteLine(message)  Next  Console.ReadLine() |  |  |
| Q2 | Dim num, count As Integer  Console.WriteLine("which times table you would like to see")  num = Console.ReadLine()  Console.WriteLine()  For count = 1 To 12  Console.WriteLine(num \* count)  Next  Console.ReadLine() |  |  |
| Q3+C | Dim count, num, total, avg, max, min As Single  Console.WriteLine("enter your number")  num = Console.ReadLine()  min = num  max = num  For count = 1 To 9  Console.WriteLine("enter your number")  num = Console.ReadLine()  min = Math.Min(min, num)  max = Math.Max(max, num)  total = total + num  Next  avg = total / 10  Console.Write("avg: ")  Console.WriteLine(avg)  Console.Write("max: ")  Console.WriteLine(max)  Console.Write("min: ")  Console.WriteLine(min)  Console.ReadLine() |  |  |
| Independent  work | Dim test1, test2, test3, total1, total2, total3, totalyear, index, avg1, avg2, avg3, avgyr As Single  For index = 1 To 30  Console.WriteLine("enter test 1 score")  test1 = Console.ReadLine()  Console.WriteLine("enter test 2 score")  test2 = Console.ReadLine()  Console.WriteLine("enter test 3 score")  test3 = Console.ReadLine()  total1 = total1 + test1  total2 = total2 + test2  total3 = total3 + test3  totalyear = total1 + total2 + total3  Next  avg1 = total1 / 30  avg2 = total2 / 30  avg3 = total3 / 30  avgyr = totalyear / 30  Console.WriteLine()  Console.WriteLine("averages:1: {0},2: {1},3: {2},year: {3}", avg1, avg2, avg3, avgyr)  Console.WriteLine("total:1: {0},2: {1},3: {2},year: {3}", total1, total2, total3, totalyear)  Console.ReadLine() |  |  |
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Note: Please make sure you save this document as ‘**if\_solution\_yourname.doc’**