**Programming Solutions**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Q / TASK** | **Code** | **Console Output** | **Comments/Problems** |
| Christmas  Santa  Coding | Module Module1  Dim naughty(10000) As String  Dim currentnaughty As Integer = -1  Dim nice(10000) As String  Dim currentnice As Integer = -1  Sub Main()  Dim choose As Integer  Dim wronginput As Boolean = False  'Additional function:  ' it can search within both nice and naughty list  ' and search multiple same name in same list  ' store location in desktop (must be able to access)  ' counting when print list  ' clear UI and easy to understand  Do  Do  choose = Menu(wronginput)  Select Case choose  Case 1  wronginput = False  Inputnaughty()  Case 2  wronginput = False  Inputnice()  Case 3  wronginput = False  Printnaughty()  Case 4  wronginput = False  Printnice()  Case 5  wronginput = False  Printnaughty()  Printnice()  Case 6  wronginput = False  Search()  Case 7  wronginput = False  Output()  Case 0  Exit Sub  Case Else  wronginput = True  End Select  Loop Until wronginput = False  Console.WriteLine("Program finished, Press Enter to open menu")  Console.ReadLine()  Console.Clear()  Loop  End Sub  Function Menu(ByRef wronginput As Boolean)  Dim input As Integer  If wronginput = False Then  Console.WriteLine("1.Input naughty list")  Console.WriteLine("2.Input nice list")  Console.WriteLine("3.Show naughty list")  Console.WriteLine("4.Show nice list")  Console.WriteLine("5.Show Full list")  Console.WriteLine("6.Search for certain person")  Console.WriteLine("7.Output as text file")  Console.WriteLine("0.Exit")  Console.WriteLine("Enter the number correspond to the option")  Else  Console.WriteLine("Wrong Input, Enter again!!")  End If  input = Console.ReadLine()  Return input  End Function  Sub Inputnaughty()  Dim input As String  currentnaughty += 1  Console.WriteLine("enter the naughty name [{0}]", currentnaughty + 1)  input = Console.ReadLine()  naughty(currentnaughty) = input  End Sub  Sub Inputnice()  Dim input As String  currentnice += 1  Console.WriteLine("enter the nice name [{0}]", currentnice + 1)  input = Console.ReadLine()  nice(currentnice) = input  End Sub  Sub Printnaughty()  Console.WriteLine("naughty list:")  For count As Integer = 0 To currentnaughty  Console.WriteLine("{0}: {1}", count + 1, naughty(count))  Next  End Sub  Sub Printnice()  Console.WriteLine("nice list:")  For count As Integer = 0 To currentnice  Console.WriteLine("{0}: {1}", count + 1, nice(count))  Next  End Sub  Sub Search()  Dim cutnaughty() As String = naughty  Dim cutnice() As String = nice  Dim input As String  Console.WriteLine("Enter the name you want to search")  input = Console.ReadLine()  Dim searchniceresult As Integer = Array.IndexOf(cutnice, input)  Dim searchnaughtyresult As Integer = Array.IndexOf(cutnaughty, input)  If searchnaughtyresult = -1 Then  Console.WriteLine("Not found in naughty list")  Else  Console.WriteLine("{0} in naughty list founded", input)  Do Until searchnaughtyresult = -1  Console.WriteLine("{0}: {1}", searchnaughtyresult + 1, naughty(searchnaughtyresult))  Array.Clear(cutnaughty, searchnaughtyresult, 1)  searchnaughtyresult = Array.IndexOf(cutnaughty, input)  Loop  End If  If searchniceresult = -1 Then  Console.WriteLine("Not found in nice list")  Else  Do Until searchniceresult = -1  Console.WriteLine("{0} in nice list founded", input)  Console.WriteLine("{0}: {1}", searchniceresult + 1, nice(searchniceresult))  Array.Clear(cutnice, searchniceresult, 1)  searchniceresult = Array.IndexOf(cutnice, input)  Loop  End If  End Sub  Sub Output()  Dim file As System.IO.StreamWriter  Dim input As String  Dim path As String = My.Computer.FileSystem.SpecialDirectories.Desktop  Console.WriteLine("input the save file name which saved in {0}", path)  input = Console.ReadLine()  Dim filelocation As String = String.Concat(path, "\", input, ".txt")  file = My.Computer.FileSystem.OpenTextFileWriter(filelocation, True)  file.WriteLine("naughty list:")  For count As Integer = 0 To currentnaughty  file.WriteLine("{0}: {1}", count + 1, naughty(count))  Next  file.WriteLine("nice list:")  For count As Integer = 0 To currentnice  file.WriteLine("{0}: {1}", count + 1, nice(count))  Next  file.Close()  End Sub  End Module | It will clear screen  Better not print screen |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Note: Please make sure you save this document as ‘**if\_solution\_yourname.doc’**