Practical No: 05

VIII. Resources required (Additional)

- if any web references are required.

X. Resources used (Additional)

(1) https://docs.microsoft.com/en-us/dotnet/visual-basic/language-reference/statements/select-case-statement

(2) https://www.tutorialspoint.com/vb.net/vb.net_select_case_statements.htm

XI. Program Code:

Write a Program using select case statement in VB.NET

```
Module Module1

    Sub Main()
        Dim grade As String
        Console.WriteLine("Enter Your grade")
        grade = Console.ReadLine()
        Select Case grade
            Case "A"
                Console.WriteLine("High Distinction")
            Case "A-"
                Console.WriteLine("Distinction")
            Case "B"
                Console.WriteLine("Credit")
            Case "C"
                Console.WriteLine("Pass")
            Case Else
                Console.WriteLine("Fail")
        End Select
        Console.ReadLine()
    End Sub

End Module
```

XII. Results (Output of the Program)

Enter Your grade

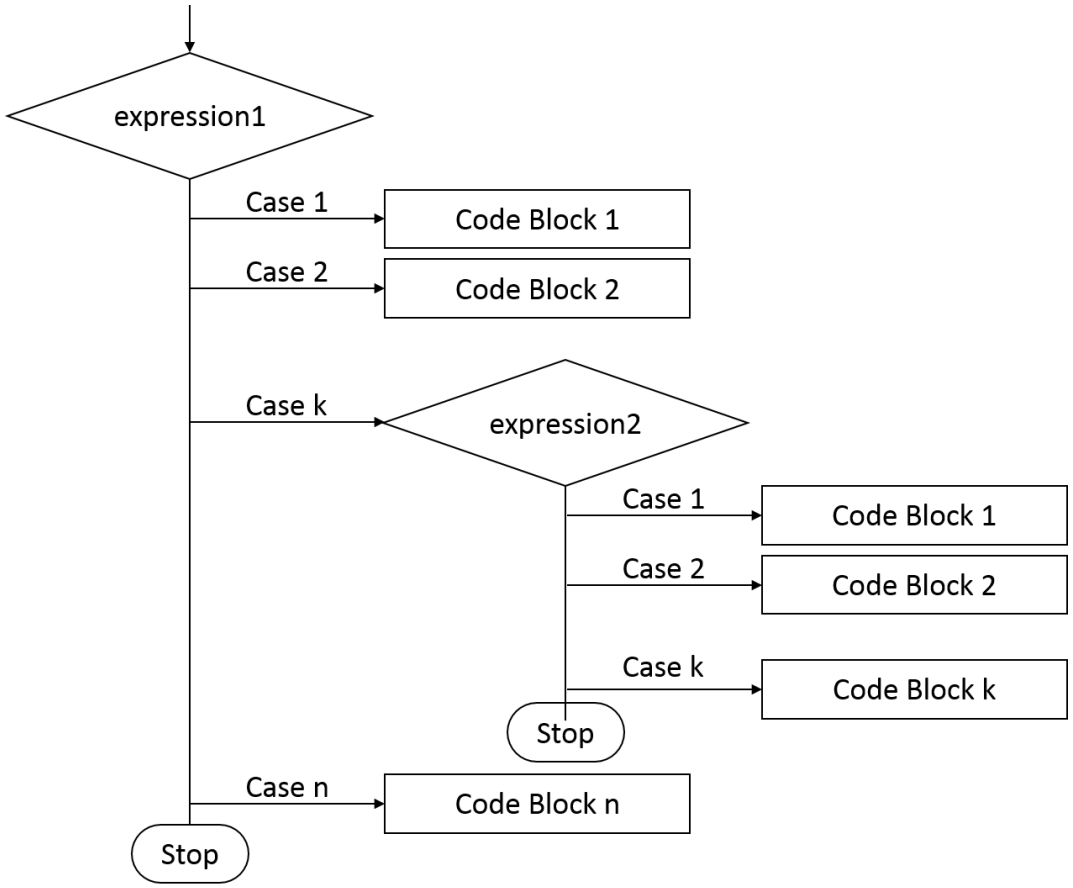
A

High Distinction

XIII. Practical Related Questions

1. **Write the use of Select Case statement –**
   - A Select Case statement allows a variable to be tested for equality against a list of values.
   - Each value is called a case, and the variable being switched on is checked for each select case.

2. **Flowchart for nested Select Case statement –**



XIV. Exercise

1. **Implement the program using Select Case statement to count the number of Vowels in A to Z alphabets.**

- Module Module1

```
    Sub Main()
        Dim str As String = "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
        Dim numberOfVowels As Integer = 0

        For Each c As Char In str
            Select Case c
                Case "A"c, "E"c, "I"c, "O"c, "U"c
                    numberOfVowels = numberOfVowels + 1
            End Select
        Next

        Console.WriteLine("Number of vowels: " & numberOfVowels)
        Console.ReadKey()
    End Sub

End Module
```

Output:

Number of vowels: 5

2. **Develop a program for performing arithmetic operations –**

```
Module Module1

    Sub Main()

        Dim N1, N2, Result, choice As Integer
        Do
            Console.WriteLine("Menu:-\n1.Add\n2.Subtract" & _
                                                "\n3.Multiply\n4.Divide\n5.Exit.")
            Console.WriteLine("Enter choice: ")
            choice = Console.ReadLine()
            Console.WriteLine("Enter number 1: ")
            N1 = Console.ReadLine()
            Console.WriteLine("Enter number 2: ")
            N2 = Console.ReadLine()
            Select Case choice

                Case 1

                    Result = N1 + N2
                    Console.WriteLine("Sum = " & Result)

                Case 2

                    Result = N1 - N2
                    Console.WriteLine("Difference = " & Result)

                Case 3

                    Result = N1 * N2
                    Console.WriteLine("Product = " & Result)

                Case 4

                    Result = N1 \ N2
                    Console.WriteLine("Quotient = " & Result)
                    Result = N1 Mod N2
                    Console.WriteLine("Remainder = " & Result)

                Case 5

                    Exit Sub

                Case Else

                    Console.WriteLine("Wrong option ...")
            End Select

        Loop While choice <> 5

    End Sub
End Module
```

Output:

Menu:-\n1.Add\n2.Subtract\n3.Multiply\n4.Divide\n5.Exit.
Enter choice: 1
Enter number 1: 57
Enter number 2: 87
Sum = 144
Menu:-\n1.Add\n2.Subtract\n3.Multiply\n4.Divide\n5.Exit.
Enter choice: 5