

Dear Parents / Students

Due to the unprecedented situation, Knowledgeplus Training center is mobilized and will keep accompanying and supporting our students through this difficult time.

Our Staff will be continuously, **sending notes and exercises on a weekly basis** through **what's app and emails**. Students are requested to **copy the notes and do the exercises** on their copybooks.

The answers to the questions below will be made available on our website on knowledgeplus.mu/support.php.

Please note that these are extra work and notes that we are providing our students and **all classes will be replaced during the winter vacation**.

We thank you for your trust and are convinced that, together, we will overcome these troubled times

IS Week 2

VB Programming Lesson 3

Select Case

The IF statement is useful, but can get clumsy if you want to consider "multi-way selections". Similarly to the IF statement the Select Case tests the contents of a variable and executes statements depending on its value.

```
Module Module1
    'Program to demonstrate the SELECT CASE statement
    'written by KPY
    'Date 12/2/2010

    Sub Main()
        Dim grade As Integer

        Console.WriteLine("Enter your grade")
        grade = Console.ReadLine()

        Select Case grade
            Case Is > 70
                Console.WriteLine("Grade A")
            Case 55 To 69
                Console.WriteLine("Grade B")
            Case 45 To 54
                Console.WriteLine("grade C")
            Case 41, 43
                Console.WriteLine("grade E+")
            Case 40,42,44
                Console.WriteLine("grade E-")
            Case Else
                Console.WriteLine("grade D")
        End Select

        Console.ReadLine()
    End Sub
End Module
```

The case statement is useful for checking that a value belongs to a list of results

```
Sub Main()  
    Dim month As Integer  
  
    Console.WriteLine("Enter a month")  
    month = Console.ReadLine  
  
    Select Case month  
        Case 1, 3, 5, 7, 8, 10  
            Console.WriteLine("31 days")  
        Case 4, 6, 9, 11  
            Console.WriteLine("30 days")  
        Case 2  
            Console.WriteLine("28 days")  
        Case Else  
            Console.WriteLine("No such month")  
    End Select  
    Console.ReadLine()  
End Sub
```

It is also useful for checking ranges of results

```
Sub Main()  
    Dim letter As char  
  
    Console.WriteLine("Enter a character")  
    letter = Console.ReadLine  
  
    Select Case letter  
        Case "A" To "Z"  
            Console.WriteLine("Capital letter")  
        Case "a" To "z"  
            Console.WriteLine("Lower case letter")  
        Case "0" To "9"  
            Console.WriteLine("Number")  
        Case "+", "-", "*", "/"  
            Console.WriteLine("Operator")  
        Case Else  
            Console.WriteLine("symbol")  
    End Select  
    Console.ReadLine()  
End Sub
```

Homework:

Programming Projects



Type in the above program into a new console application. Then test your program with the following test data. For each set of test data:

- state the expected results,
- run the program with the test data and
- get a screen shot to show evidence.

Test Data with expected results

- Grade = 10
- Expected result = Grade U

- Grade = 80
- Expected result = Grade A

- Grade = 60
- Expected result =

- Grade = 50
- Expected result =

- Grade = 110
- Expected result =

- Grade = 70
- Expected result =

- Grade = 45
- Expected result =

Amend the grade program to that an error message is displayed if the grade is greater than 100 or less than 0.



Write a program that will ask for a person's age and then display a message whether they are old enough to drive or not



Write a program that asks the user to enter two numbers and then displays the largest of the two numbers



Write a program that checks whether a number input is within the range 21 to 29 inclusive and then displays an appropriate message.

Extend the program so a message out of range will cause a message saying whether it is above or below the range



Write a program that asks for three numbers and then displays the largest of the three numbers entered