### **Syllabus Content:**

#### 8.1. Programming Concepts (Procedures & Functions)

- 6 (a) Understand what is meant by procedures, functions and parameters
- 🦉 (b) Define and use procedures and functions, with or without parameters
- (c) Understand and use local and global variables.

### Notes and guidance

Procedures and functions may have up to two

# 8.1. Programming Concept (Procedures & Functions)

Algorithm design involves developing **step-by-step** instructions to solve a problem and subroutines are to **modularize the solution**.

Initially, a program was written as one monolithic block of code. The program started at the first line of the program and continued to the end.

Program languages have now been developed to be structured. A problem can be divided into a number of smaller subroutines (also called **procedures**). From within one subroutine, another subroutine can be called and executed:

## **PROCEDURE or Subroutine:**

A **PROCEDURE** is a self-contained section of program code which performs a specific task and is referenced by a name. Procedures can be **CALLED** repeatedly throughout a program by keyword **CALL**. **PROCEDURE** can contain its own local variables, data types, labels, and constant declarations.

**FUNCTION:** is a self contained program code which **performs a specific task** and is referenced by a name. **FUNCTION always return a value.** FUNCTION is a sequence of steps that is given an identifier and returns a single value; function call is made by the keyword **CALL** 

## Parameter of Procedure or Function:

A variable applied to a procedure or function that allows one to pass in a value for the procedure/function to use.





**Header (Procedure or Function):** the first statement in the definition of a procedure or function, which contains its name, any parameters passed to it, and, for a function, the type of the return value.

**Argument** – the value passed to a procedure or function.

## Local and global variables

A **global variable** can be used by any part of a program – its **scope** covers the whole program. **Global Variables are DECLARED above and outside** the **Main Program**, **Procedures or Functions** 

A **local variable** can only be used by the part of the program it has been **declared inside** – its **scope** is **restricted to that part of the program**.

For example, in this algorithm the variables **num1**, **num2** and **answer** are declared globally.

```
DECLARE num1, num2, answer : Integer
     PROCEDURE userinput()
          OUTPUT("Enter number 1")
          INPUT num1
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          OUTPUT("Enter number 2"
          INPUT num2
     END PROCEDURE
     PROCEDURE Calculation()
          answer = num1 * num2
     END PROCEDURE
     PROCEDURE useroutput()
          OUTPUT("the product of ", num1 ," and ", num2 ," is ")
          OUTPUT (CALL answer)
     END PROCEDURE
BEGIN
   CALL userinput
   CALL Calculation
 CALL useroutput
 END
```

# Subroutines or Procedures

### Subroutine

A subroutine is another name of PROCEDURE. It is a self-contained section of program code that performs a specific task, as part of the main program.



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## **PSEUDOCODE of PROCEDURE**

```
PROCEDURE timestable(number As INTEGER) //This is a Procedure
FOR count = 1 To 20
OUTPUT(number & " X " & count & " = " & count * number)
NEXT
END PROCEDURE
```

#### BEGIN

OUTPUT("PLEASE Input number for TimesTable") //asking for number(in procedure) from user CALL timestable //CALL to procedure to execute it in the main Program END

#### VB CODE OF PROCEDURE

<pre>Module module1     ' This is a Procedure     Sub timestable(ByRef number As Integer)     For count = 1 To 20         Console.WriteLine(number &amp; " X " &amp; count &amp; " = " &amp; count * number)     Next     End Sub     Console.WriteLine("PLEASE Input a number for TimesTable") 'asking for number(declared in procedure) from us     timestable(Console.ReadLine) 'CALL to procedure to execute it in the main Program     Console.ReadKey()     PLEASE Input a number to see its Ta     12     End Module</pre>		
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Computer Science 2210 with Maiid Tahir

## **PROCEDURE of Fahrenheit to Celsius**

```
PROCEDURE Celsius (temp : REAL)
    temp = (temp - 32)/1.8
     OUTPUT("Celsius = " , temp)
                                                  shir con
END PROCEDURE
BEGIN
    DECLARE MyTemp : REAL
    OUTPUT("Input temperature in Fahrenheit ")
    INPUT MyTemp
    CALL Celsius(MyTemp) //CALL to procedure to execute
END
Using Global variable (Pseudocode)
DECLARE num1, num2, answer As Integer
    PROCEDURE input sub()
         INPUT num1 = Console.ReadLine
         OUTPUT("Enter number 1")
         OUTPUT("Enter number 2")
         INPUT num2
    END PROCEDURE
    PROCEDURE Calculation()
         answer = num1 * num2
    END PROCEDURE
```

PROCEDURE output\_sub()
OUTPUT("the product of " & num1 & " and " & num2 & " is ")
OUTPUT (answer)

END PROCEDURE

BEGIN CALL input\_sub()

```
CALL Calculation()
CALL output_sub()
```

END





## Example Program – Procedures (VB Code)



## **Parameters**

As mentioned above, **local variables** only have a **lifespan of the procedure**. Sometimes it is useful to **pass a value from one procedure to another**. This is done by using **parameters (or arguments)** A parameter can be passed from one procedure to another by value or by reference.

# **Defining a Function**

The Function statement is used to declare the name, parameter and the body of a function. The syntax for the Function statement is:

```
FUNCTION FunctionName [(ParameterList)] As ReturnType
[Statements]
```





### **End Function**

## **Functions**

Functions are similar to Procedure, except that they always return a value..

```
W.Maildtahir.com
FUNCTION square(num : INTEGER) : RETURNS INTEGER
       square = num * num
     RETURN square
END FUNCTION
FUNCTION sum (a :INTEGER, b : INTEGER) RETURNS INTEGER
       sum = a + b
     RETURN sum
END FUNCTION
BEGIN
     DECLARE number, value1, value2 : INTEGER
     PRINT ("Please Input a number for its square")
     INPUT number
     PRINT ("Square of number is: ")
     PRINT (CALL square(number))
     PRINT ("Please Input a num1 and num2 for sum ")
                                                            nir.com
     INPUT value1, value2
     PRINT ("Sum is" (CALL sum(value1, value2))
```

END

## Example Program in VB - Functions

```
🖧 Module1
                                                                                 🔍 Main
  Module Module1
        'this is a function (functions return a value)
        Function adder(ByRef a As Integer, ByVal b As Integer)
            adder = a + b
            Return adder
        End Function
        Sub Main()
            Dim x As Integer
            x = adder(2, 3) 'call to function adder which returns a value
            Console.WriteLine("2 + 3 = " & x)
            'you can simply then code by putting the call directly into the print statement
            Console.WriteLine("4 + 6 = " & adder(4, 6))
            Console.ReadKey()
        End Sub
    End Module
```





```
Module Module1
    Function square(ByVal x As Integer) As Integer
       square = x * x
    End Function
                                                             naildtahir.com
    Function sum(ByRef a As Integer, ByRef b As Integer) As Integer
       sum = a + b
    End Function
    Sub Main()
       Dim number As Double = 5
       Console.WriteLine("x = " & number)
       Console.WriteLine("Square of x is " & square(number))
                                                    WWW.R
       Console.WriteLine(sum(3, 7))
       Console.WriteLine(square(sum(16, 9)))
       Console.ReadLine()
    End Sub
End Module
```



### Example

Following code snippet shows a function *FindMax* that takes two integer values and returns the larger of the two.

```
Function FindMax(ByVal num1 As Integer, ByVal num2 As Integer) As Integer ' local
variable declaration
   Dim result As Integer
   If (num1 > num2) Then
        result = num1
   Else
        result = num2
   End If
   FindMax = result
End Function
```

## **Function Returning a Value**

In VB.Net, a function can return a value to the calling code in two ways:

- By using the return statement
- By assigning the value to the function name



www.majidtahir.com

Contact: 03004003666



## Function & Procedure in one Program (Pseudocode).

```
PROCEDURE grades(num As Integer)
                                      All St. WWW. Mailetahir.com
    Case OF num
           >= 90 : OUTPUT ("A*")
           >= 80 : OUTPUT ("A")
           >= 70 : OUTPUT ("B")
           >= 60 : OUTPUT ("C")
        OTHERWISE OUTPUT ("Need improvement")
    End CASE
End PROCEDURE
PROCEDURE pass (number As Integer)
    IF number >= 50 THEN
        OUTPUT ("Pass")
    ELSE
        OUTPUT ("Fail")
    END IF
END PROCEDUE
    12210
                                                         ltahir.com
FUNCTION regular (n: INTEGER) RETURNS : STRING
    IF n \ge 60 THEN
        regular = ("Regular admission from school")
    ELSE
        regular = ("Appears as a Private candidate")
    END IF
    RETURN regular
END FUNCTION
BEGIN
    DECLARE marks : Integer
    OUTPUT ("Enter your marks")
    INPUT marks
    WHILE marks > 100 OR marks < 0
        OUTPUT ("Error, Re-Enter marks between 0 to 100")
        INPUT marks
    END WHILE
    CALL grades(marks)
    CALL pass(marks)
    OUTPUT (CALL regular(marks))
END
```



The following example demonstrates *FindMax* function in VB (Console mode):

```
Module module1
    Function FindMax(ByVal num1 As Integer, ByVal num2 As Integer) As Integer
        ' local variable declaration */
                                                   MMM Maldtahir.on
       Dim result As Integer
       If (num1 > num2) Then
           result = num1
       Else
           result = num2
       End If
        FindMax = result
    End Function
    Sub Main()
       Dim a, b, res As Integer
       Console.WriteLine("Write value number 1")
       a = Console.ReadLine()
       Console.WriteLine("Write value number 2")
       b = Console.ReadLine()
       res = FindMax(a, b)
       Console.WriteLine("Max value is : {0}",
                                              res)
       Console.ReadLine()
    End Sub
                                                                   tahir.com
End Module
```

When the above code is compiled and executed, it takes value 1 & value 2 as input and produces the maximum value for example:



#### **References:**

Visual Basics Console Cook Book by VB.NET Console Book by **Dough Semple** <u>https://www.tutorialspoint.com/vb.net/vb.net\_functions.htm</u> <u>https://docs.microsoft.com/en-us/dotnet/visual-basic/language-reference/statements/function-statement</u>



www.majidtahir.com

Contact: 03004003666

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