



COLLEGE OF ENGINEERING & TECHNOLOGY

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Course : Introduction To Programming
Course No. : CC114

Sheet 11 Functions & Sub Procedures

Q1. Choose the correct answer:

1. A procedure defined with keyword Sub
a) must specify a return type b) does not accept arguments
c) returns a value d) does not return a value
2. The technique of developing large apps from small, manageable pieces is known as
a) divide and conquer b) returning a value c) click and mortar d) a building-block algorithm
3. What is the difference between Sub and Function procedures?
a) Sub procedures return values, Function procedures do not.
b) Function procedures return values, Sub procedures do not.
c) Sub procedures accept parameters, Function procedures do not.
d) Function procedures accept parameters, Sub procedures do not.
4. What occurs after a procedure call is made?
a) Control is given to the called procedure. After the procedure is run, the app continues execution at the point where the procedure call was made.
b) Control is given to the called procedure. After the procedure is run, the app continues execution with the statement after the called procedure's definition.
c) The statement before the procedure call is executed.
d) The app terminates
5. Functions can return value(s).
a) zero b) exactly one c) one or more d) any number of
6. Which of the following must be true when making a procedure call to a procedure that does not have Optional parameters?
a) The number of arguments in the procedure call must match the number of parameters in the procedure header.
b) The argument types must be compatible with their corresponding parameter types.
c) Both (a) and (b) d) None of the above
7. Which of the following statements correctly returns the variable value from a Function procedure?
a) Return Dim value b) Return value As Integer c) value Return d) Return value

8. The ToolStripButton executes the next statement in the app. If the next statement to execute contains a procedure call, the called procedure executes in its entirety

- a) Step Into b) Step Out c) Step Over d) Steps

9. The first line of a procedure (including the keyword Sub or Function, the procedure name, the parameter list and the Function procedure return type) is known as the procedure

- a) body b) title c) caller d) header

10. Method of class Math calculates the square root of the value passed as an argument.

- a) SquareRoot b) Root c) Sqrt d) Square

Q2. What does the following code do? Assume that this procedure is invoked by using Mystery(70, 80).

```
Sub Mystery(number1 As Integer, number2 As Integer)
    Dim x As Integer
    Dim y As Double

    x = number1 + number2
    y = x / 2

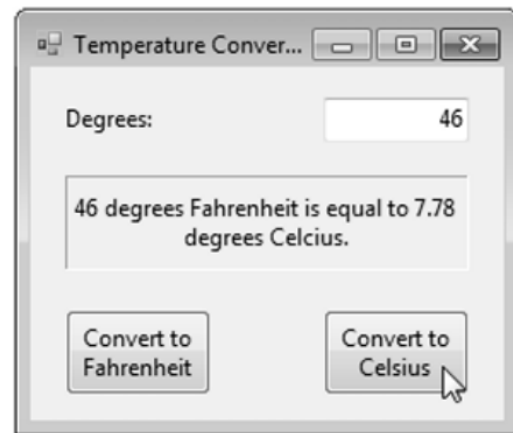
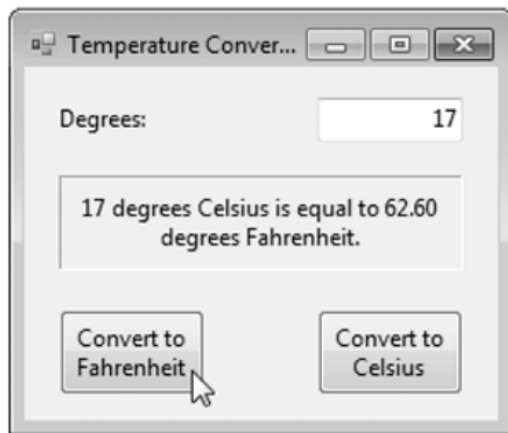
    If y <= 60 Then
        resultLabel1.Text = "<= 60"
    Else
        resultLabel1.Text = "Result is " & y
    End If
End Sub ' Mystery
```

Q3. Find the error(s) in the following code, which should take an Integer value as a parameter and return the value of the parameter multiplied by two.

```
Function TimesTwo(number As Integer) As Integer
    Dim result As Integer

    result = number * 2
End Function ' TimesTwo
```

Q4. Write an app that performs temperature conversions . The app should perform two types of conversions: degrees Fahrenheit to degrees Celsius, and degrees Celsius to degrees Fahrenheit.



Q5. Drivers often want to know the miles per gallon their cars get so they can estimate gasoline costs. Develop an app that allows the user to input the number of miles driven and the number of gallons used for a tank of gas and that displays the corresponding miles per gallon.

