



Republic of the Philippines
Department of Education
REGION III
SCHOOLS DIVISION OFFICE OF NUEVA ECIJA

LEARNING ACTIVITY SHEET
IN SPICAL PROGRAM IN ICT 10
ADVANCED PROGRAMMING 10
Third Quarter, Week 2

Name: _____

Date: _____

Grade Level / Section: _____

CLASSES AND OBJECTS
With MEMBER FUNCTION

BACKGROUND INFORMATION FOR LEARNERS

Member Functions

- A function that has its definition or its prototype within the class definition like any other variable.
- It operates on any object of the class of which it is a member and has access to all the members of a class for that object.

Encapsulation

- Member variables are attributes of an object *from-design-perspective* and they are kept private.
- These variables can only be accessed using the public member functions.

Example 1. Create a program that displays contact information of clients using class.

VB Code:

```
Module Module1
    Class contact
        Public fname As String
        Public add As String
        Public mob As String
        Public em As String
        Public Sub setname(ByVal name As String)
            fname = name
        End Sub
        Public Sub setaddb(ByVal ad As String)
            add = ad
        End Sub
        Public Sub setmob(ByVal cp As String)
            mob = cp
        End Sub
    End Class
End Module
```



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```
Public Sub setem(ByVal eml As String)
    em = eml
End Sub
Public Function info() As String
    Console.WriteLine("Name: {0}", fname)
    Console.WriteLine("Address: {0}", add)
    Console.WriteLine("Mobile No.: {0}", mob)
    Console.WriteLine("Email Address: {0}", em)
End Function
End Class
Sub Main()
    Dim cinfo As contact = New contact
    cinfo.setname("Juan Dela Cruz")
    cinfo.setaddb("Caloocan, Carranglan, Nueva Ecija")
    cinfo.setmob("09876541234")
    cinfo.setem("juan.delacruz@deped.gov.ph")
    cinfo.info()
    Console.ReadKey()
End Sub
End Module
```

Output:

```
file:///c:/users/eugene/documents/visual studio 2010/Projects/Examp
Name: Juan Dela Cruz
Address: Caloocan, Carranglan, Nueva Ecija
Mobile No.: 09876541234
Email Address: juan.delacruz@deped.gov.ph
```

LEARNING COMPETENCY

1. Use Classes and Objects in creating a program.



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ACTIVITIES

1. Create a program that computes for the area of 3 rectangle and displays its results. Use class with member function. (10pts.)

REFLECTION

1. In your own understanding. What is Classes and Objects?

REFERENCES

Electronic Resources:

<https://www.pdfdrive.com/mastering-microsoft-visual-basic-2010-e43922330.html>

Master Microsoft Visual Basic 2010

https://www.tutorialspoint.com/vb.net/vb.net_classes_objects.htm

VB.Net Programming Language Reference

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KEY TO CORRECTIONS

Activity1

```
Module Module1
Class area
Public length As Double
Public width As Double
Public Sub setlen(ByVal len As Double)
    length = len
End Sub
Public Sub setwid(ByVal wid As Double)
    width = wid
End Sub
Public Function recarea()
    Dim a As Double
    a = length * width
    Console.WriteLine("The area of rectangle is {0}", a)
End Function
End Class
Sub Main()
    Dim ar As area = New area
    ar.setlen(5)
    ar.setwid(6)
    ar.recarea()
    ar.setlen(6)
    ar.setwid(7)
    ar.recarea()
    ar.setlen(7)
    ar.setwid(8)
    ar.recarea()
    Console.ReadKey()
End Sub
End Module
```