



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

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**LEARNING ACTIVITY SHEET**  
**IN SPICAL PROGRAM IN ICT 10**  
**ADVANCED PROGRAMMING 10**  
*Third Quarter, Week 1*

Name: \_\_\_\_\_

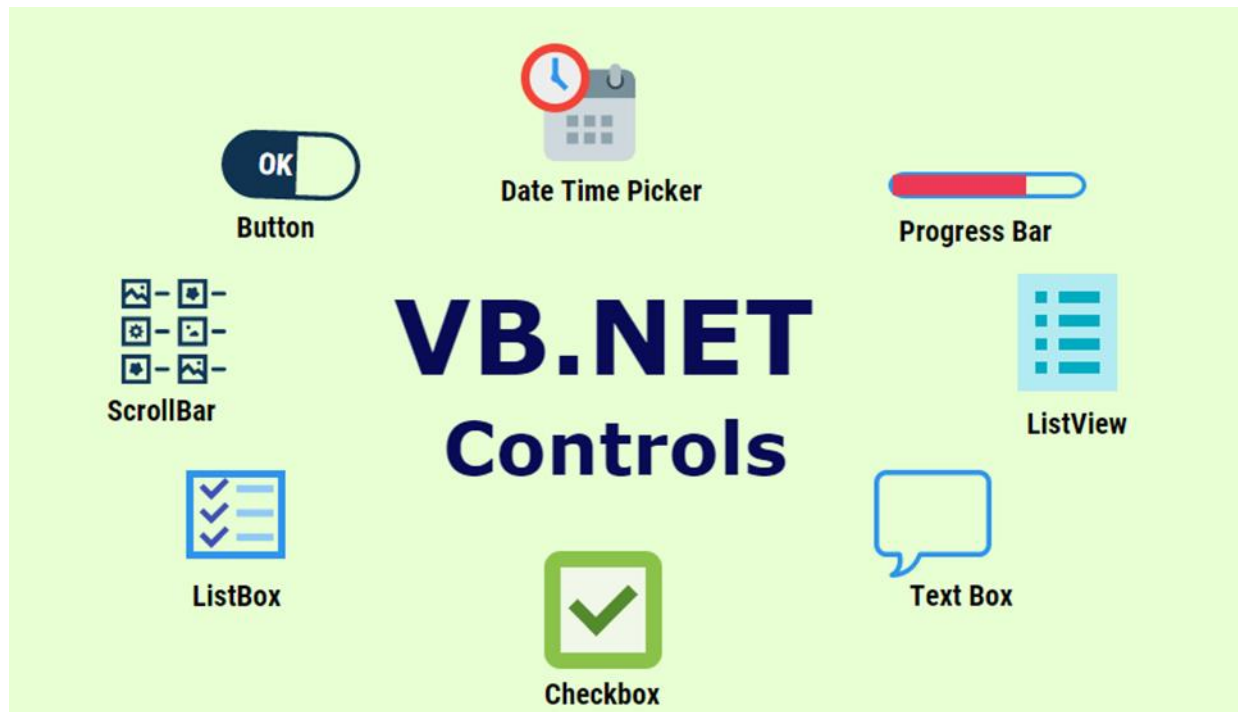
Date: \_\_\_\_\_

Grade Level / Section: \_\_\_\_\_

**CLASSES AND OBJECTS**

**BACKGROUND INFORMATION FOR LEARNERS**

Object is a combination of codes and data that can be treated as a unit. It can be a piece of an application. Like a control or a form in applications. An entire application can be an example of an object.



**What is Class?**

A **Class** is a collection of method and variables. It is a blueprint that defines the data and behaviour of a type. It is also a software components that defines and implements one or more interfaces.

## **Class Definition**

A class definition starts with the keyword **Class** followed by the **class name**; and the **class body**, ended by the **End Class** statement.

**Public Class Test**

**Variables**

**Methods**

**Properties**

**Events**

**End Class**

## **Class Members**

### **1. Data Members / Variables**

Data members includes member variables and constants.

### **2. Event Members**

Events are procedures that are called automatically by the Common Language Runtime in response to some action that occurs, such as an object being created, a button being clicked, a piece of data being changed, or an object going out of scope.

### **3. Methods / Function members**

This refers to both functions and subroutines.

### **4. Property Members**

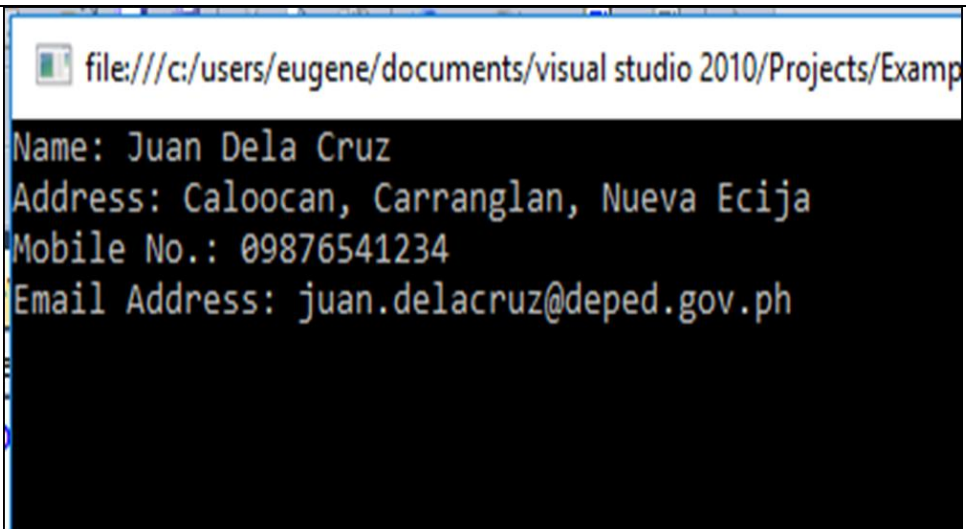
A property member is implemented as a Private member variable together with a special type of VB function that incorporates both accessor functions of the property

**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
    End Class
    Sub Main()
        Dim cinfo As contact = New contact
        cinfo.fname = "Juan Dela Cruz"
        cinfo.add = "Caloocan, Carranglan, Nueva Ecija"
        cinfo.mob = "098776541234"
        cinfo.em = "juan.delacruz@deped.gov.ph"
        Console.WriteLine("Name: {0}", cinfo.fname)
        Console.WriteLine("Address: {0}", cinfo.add)
        Console.WriteLine("Mobile No.: {0}", cinfo.mob)
        Console.WriteLine("Email Address: {0}", cinfo.em)
        Console.ReadKey()
    End Sub
End Module
```

Output:



The screenshot shows a console window with a title bar that reads "file:///c:/users/eugene/documents/visual studio 2010/Projects/Examp". The console output displays the contact information for Juan Dela Cruz, including his address in Caloocan, Carranglan, Nueva Ecija, his mobile number 098776541234, and his email address juan.delacruz@deped.gov.ph. The output is formatted with labels and values separated by colons.

```
Name: Juan Dela Cruz
Address: Caloocan, Carranglan, Nueva Ecija
Mobile No.: 098776541234
Email Address: juan.delacruz@deped.gov.ph
```

## LEARNING COMPETENCY

1. Use Classes and Objects in creating a program.

## ACTIVITIES

1. Create a console application that computes for the area of 3 rectangle and displays its results. Use class to create this program. (10pts.)

## REFLECTION

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

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## 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](https://www.tutorialspoint.com/vb.net/vb.net_classes_objects.htm)

VB.Net Programming Language Reference

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