



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

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**LEARNING ACTIVITY SHEET**  
**SPECIAL PROGRAM IN ICT 10**  
**ADVANCED PROGRAMMING 10**  
*First Quarter, Week 7*

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

\_\_\_\_\_ Grade

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

**STATEMENTS: DECLARING AND EXECUTING**

**BACKGROUND INFORMATION FOR LEARNERS**

A statement is a complete instruction in Visual Basic programs. It may contain keywords, operators, variables, literal values, constants and expressions.

Statements could be categorized as –

- Declaration statements – these are the statements where you name a variable, constant, or procedure, and can also specify a data type.
- Executable statements – these are the statements, which initiate actions. These statements can call a method or function, loop or branch through blocks of code or assign values or expression to a variable or constant. In the last case, it is called an Assignment statement.

**Declaration Statements**

The declaration statements are used to name and define procedures, variables, properties, arrays, and constants. When you declare a programming element, you can also define its data type, access level, and scope.

The programming elements you may declare include variables, constants, enumerations, classes, structures, modules, interfaces, procedures, procedure parameters, function returns, and external procedure references, operators, properties, events, and delegates.

Following are the Declaration Statements in VB.Net –

Sr.No	Statements	Example
1	<b>Dim Statement</b> Declares and allocates storage space for one or more variables. Dim message As String = "Hello!"	
2	<b>Const Statement</b> Declares and defines one or more constants. = CDec(2.7182818284)	
3	<b>Enum Statement</b> Enum CoffeeMugSize	



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	Declares an enumeration and defines the Jumbo values of its members. ExtraLarge Large Medium Small End Enum	
4	<b>Class Statement Class Box</b> Declares the name of a class and Public length As Double introduces the definition of the variables, Public breadth As Double properties, events, and procedures that the Public height As Double class comprises. End Class	
5	<b>Structure Statement Structure Box</b> Declares the name of a structure and Public length As Double introduces the definition of the variables, Public breadth As Double properties, events, and procedures that the Public height As Double structure comprises. End Structure	
6	<b>Module Statement Public Module myModule</b> Declares the name of a module and Sub Main() introduces the definition of the variables, Dim user As String = properties, events, and procedures that the InputBox("What is your name?") module comprises. MsgBox("User name is" & user) End Sub End Module	
7	<b>Public Interface MyInterface</b> <b>Interface Statement</b> <b>Sub doSomething()</b> Declares the name of an interface and introduces the definitions of the members that the interface comprises. <b>End Interface</b>	
8	<b>Function Statement</b> Declares the name, parameters, and code that define a Function procedure.	<b>Function myFunction</b> <b>(ByVal n As Integer) As Double</b> Return 5.87 * n End Function
9	<b>Sub Statement</b> Declares the name, parameters, and code that define a Sub procedure.	<b>Sub mySub(ByVal s As String)</b> Return End Sub



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10	<b>Declare Statement</b> Declares a reference to a procedure implemented in an external file.	Declare Function getUsername Lib "advapi32.dll" Alias "GetUserNameA" ( ByVal lpBuffer As String, ByRef nSize As Integer) As Integer
11	<b>Operator Statement</b> Declares the operator symbol, operands, and code that define an operator procedure on a class or structure.	Public Shared Operator + (ByVal x As obj, ByVal y As obj) As obj Dim r As New obj ' implementation code for r = x + y Return r End Operator ReadOnly Property quote() As String
12	<b>Property Statement</b> Declares the name of a property, and the property procedures used to store and retrieve the value of the property.	Get Return quoteString End Get End Property  Public Event Finished()
13	<b>Event Statement</b> Declares a user-defined event.	
14	<b>Delegate Statement</b> Used to declare a delegate.	Delegate Function MathOperator( ByVal x As Double, ByVal y As Double ) As Double

## Executable Statements

An executable statement performs an action. Statements calling a procedure, branching to another place in the code, looping through several statements, or evaluating an expression are executable statements. An assignment statement is a special case of an executable statement

### Example

The following example demonstrates a decision making statement –  
Module decisions  
Sub Main()  
'local variable definition '  
Dim a As Integer = 10



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' check the boolean condition using if statement '

If (a < 20) Then

' if condition is true then print the following '

Console.WriteLine("a is less than 20")

End If

Console.WriteLine("value of a is : {0}", a)

Console.ReadLine()

End Sub

End Module

When the above code is compiled and executed, it produces the following result –

a is less than 20;

value of a is : 10

## LEARNING COMPETENCY

1. Create a program with statements.

## ACTIVITIES

1. In the following programs, please indicate/write how many statements used.

```
Module Program
Public Class Book
Public Title As String
End Class
Sub Main()
Dim x as new Book
x.Title="VB.NET Programming"
Console.WriteLine(x.Title)
Console.ReadKey()
End Sub
End Module
```

```
Module Program
Public Class Book
Private strTitle As String

Public Property Title()
Get
Return strTitle
End Get
Set(ByVal Value)
strTitle = Value
End Set
End Property
```



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```
End Class  
Sub Main()  
Dim x As New Book  
x.Title = "Property"  
Console.WriteLine(x.Title)  
Console.ReadKey()  
End Sub  
End Module
```

## REFLECTION

1. In your own understanding. How important is STATEMENTS in our programs?

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## REFERENCES

Electronic Resources:

[https://www.tutorialspoint.com/vb.net/vb.net\\_statements.htm](https://www.tutorialspoint.com/vb.net/vb.net_statements.htm)

VB.Net Programming Language Reference

[www.goalkicker.com](http://www.goalkicker.com) – Free Programming Books (Visual Basic .NET Notes for Professionals)

<https://www.tutlane.com/tutorial/visual-basic/> - Visual Basic Tutorial

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