Analyzing: Defining the Problem; Choose the Interface: **Design your form** using objects; **Code**: Translate the algorithm into a programming language; **Complete Documentation**: Write & keep updated the materials that describe the program; A **decision programming statement** structure means to: if the answer to a question is "yes" then one group of instruction is executed. If the answer is "no" then another is executed.; **Problem Solving the Term Design**: Plan the solution to the problem using a tool like flowcharts; **Looping**: Series of instructions executed repeatedly.; **Test and Debug**: Locate and remove errors in the program;

When the user types into a textbox, and the program reads what the user types in, that is output: False

Every **sub procedure** must end with: End Sub; **Event** of Object: Action the user does to the object; **Method** of an Object: A piece of code provided to you that expresses the "verb" of the object; **Property of an Object**: Characteristic of the object, also known as look and feel; **Button** uses prefix btn; **Properties** can be set in both design time and code for run time.; **Hello World** is txtWrd.Text = "Hello World"; **Syntax to set a property** is controlName.property= setting; **Button** is a control/object

After writing your code, you should save your project by selecting Save Form1.vb As...: False

x = "Hello World"; IstBox.Items.Clear(); Dim Y as Integer = 1

Dim X as Integer x = x + 1 x = x + 1 IstOut.Items.Add(x) Displays the number 2

Dim X as double = 4.78 lstOut.Items.Add(Math.Round(X,1)) Displays the number 4.8

^Has the highest level of precedence;

Dim x As Double = 3,y As Double = 1

Dim z As Double z = x + (y * x) x = y z = x + z lstBox.ltems.Add(x + y + z) Displays the number 9

Numeric variables can be initialized to zero or any other number, but once they are initialized, they cannot be changed. False

The value of Int(8.78) is 9. False

When declaring a variable that will refer to a submarine, a good name for the variable is sub. False

str2 = "WHEN ALL ELSE FAILS, READ THE DIRECTIONS" str1 = str2.Substring(5, 3)

If strVar.Length is 5, then the value of strVar.Substring(4, 1) is the last character of the value of strVar.: True

Dim alphabet, soup As String alphabet = "abcdefghijklmnopqrstuvwxyz" soup = alphabet.ToUpper txtBox.Text = alphabet.Substring(0, 5) & soup.Substring(0, 5) **Displays:** abcdeABCDE

What will be the output of the following statement? txtBox.Text = CStr(Math.Round(17 / 5)) **Displays 3**

Dim strVar As String, numVar As Integer strVar = "Now is the time for all good men" numVar = strVar.IndexOf("the time for") 8

Which of the following expressions has as its value the value of strVar with its leading and trailing spaces removed? strVar.Trim

Textbox control: txtBox.Text = "Hello World"; Which of the following statements will **NOT display the number 5** in the text box?txtBox.Text = 5; Which statement can be used to clear the contents of a text box? **txtBox.Text = ""**; Which statement will display the words Hello World in a text box? txtBox.Text = "Hello" & " World"

The following lines are valid. (T/F) Dim h As String = "Hello" txtBox.Text = CStr(h.IndexOf("h")): True If TAX_RATE is a named constant of type Double, which of the following statements is valid?: dblVar = TAX_RATE + 1

The value returned by INPUTBOX is String

Option Explicit requires you to declare every variable before its use. True

What will be the output of the following statement? txtBox.Text = (0.567).ToString("P1") 56.7%

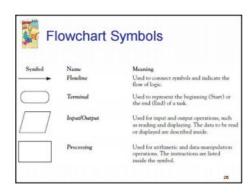
The value of (12345).ToString("C") is \$12345: False

What will be the output of the following statement? txtBox.Text = (1234.56789).ToString("N3"): 1,234.568

What is the proper syntax when using a message dialog box? MessageBox.Show("Hi there", "Hi")

firstDay = #1/1/2014#

strName = InputBox("What is your first name?", "First Name")



Function FunctionName [(ParameterList)] As ReturnType

'The following statement immediately transfers control back
'to the calling code and returns the value of Expression.
Return Expression

End Function

Function hypotenuse(ByVal side1 As Single, ByVal side2 As Single) As Single Return Math.Sqrt((side1 ^ 2) + (side2 ^ 2))

End Function

Dim testLength, testHypotenuse As Single testHypotenuse = hypotenuse(testLength, 10.7)

Sub tellOperator(ByVal task As String)

Dim stamp As Date

stamp = TimeOfDay()

MsgBox("Starting " & task & " at " & CStr(stamp))

End Sub

Sub Calculate(ByVal rate As Double, ByRef debt As Double)

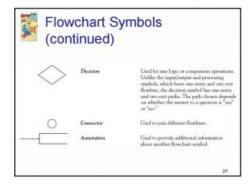
Private Sub Check1_Click()

If Check1.Value = 1 Then

Check1.Caption = "Checked"

Else

Check1.Caption = "Unchecked"



End If

ASCII printable characters (character code 32-127) Codes 32-127 are common for all the different variations of the ASCII table

Boolean denoting a system of algebraic notation used to represent logical propositions, especially in computing and electronics.

for item in my_list:

- 1. Array: Systematic arrangements of objects in programming, indiced usually by integers
- 2. Variable: Something declared in programming that is likely to change
- 3. Logical Operators: A programming symbol that denotes logical notation
- 4. Input: What is operated by the processing system
- 5. Output: The data produced, processed or delivered using a computer based system
- 6. Integers: All whole numbers that are greater or less than zero
- 7. Data Sequencing: The sorting of data displayed on a computer
- 8. Data Processing: A series of operations made on data in order to classify it using a computer or programming operation
- 9. Information Technology: The study of a computer or telecommunication system being used to retrieve, process, or classify data
- 10. String: Finite sequence of numbers classified in the program itself
- 11. Double: A type of variable that means it contains twice as many digits in binary
- 12. Encryption: Process of encoding messages so they can be understood only by the receiving party; usually done in cryptography or IT
- 13. Server: A computer program or system that manage access to a centralized network, service or resource to rely upon
- 14. GUI: Graphical user interface; strictly used as a technical acronym
- 15. Visual Basic: A programming environment by microsoft based on a GUI and the basic programming language
- 16. Object Oriented Programming: Programming based around objects or what will contain the data being processed
- 17. Loop: A series of structured events put together through programming
- 18. Nested Loop: A nested loop is a loop within a loop mainly for repeating inner and outer loops to make the program run more efficiently
- 19. Code: Programmed instructions for a computer to perform a specific action or something to be visualized in a specific way
- 20. Debug: A way of identifying and removing errors from your code
- 21. Compile: The code being created as a program or being able to run efficiently
- 22. Infinite Loop: Usually an error when the loop doesn't have an end to the event it is trying to perform, or doesn't know when to stop the program