

3. Victor has used the following variable declarations. Explain what is wrong with the variable names that Victor has chosen. Has he made any errors in choosing the data type of any of the variables?

`Dim txtName As String, lblNumber As Integer, cmdAddress As String`
`Dim numberOfStudents As String, familyName As Integer, x As String, y As String`

txt → only in text box names

lbl → " " label names

cmd → " " command button names

CamelCase

should not be used for variable names

Variable Declaration?

state the name AND data type of a variable

4. Complete the following.

`Private Sub cmdPressMe_Click()`

`Dim Name As String`

`Name = txtName.Text`

`lblGreeting.Visible = True`

`lblGreeting.Caption = "Have a nice day " & Name & "."`

`End Sub`

Name of

object (command button)

Name of

event

Name of

Sub

VB assumes that the properties are the default properties when not specified

5. The following VB sub will work correctly but it is somewhat unclear; that is, the statements within the sub may be difficult for some people to understand. Explain why.

`Private Sub cmdClear_Click()`

`txtName = ""`

`txtAddress = ""`

`lblSalePrice = ""`

`lblSalesTax = ""`

`End Sub`

What is this string called? What is its purpose?

Null (Empty) String

→ string with no characters (string equivalent of zero)

Properties are MISSING!!

`txtName.Text = ""`

`txtAddress.Text = ""`

`lblSalePrice.Caption = ""`

`lblSalesTax.Caption = ""`

It is much better to write the code this way because there is no question about which properties are affected.

6. Classify each of the following VB concepts.

VB Concepts	Circle the term that best describes the VB concepts in the left column													
Private, Sub, End, Dim, String, Byte, Integer, Long, Single, Double, Currency, As, If, Elseif, Else, True	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
+, -, *, /, ^, <, >, <=, >=, <, >, &	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
"Central Peel Secondary"	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
String, Byte, Integer, Long, Single, Double, Currency	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
Val, Int, Round, Trim, Format, CStr, Str	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
23.7395624584	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
Age (declared as Byte)	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
Address (declared as String)	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
SubTotal * 0.07	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
GST = SubTotal * 0.07	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
PizzaBasePrice = <u>18.9</u> (underlined part)	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
txtName <u>Text</u> (underlined part)	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
<u>txtName</u> Text (underlined part)	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression
txtName <u>SetFocus</u> (underlined part)	String Constant	Numeric Constant	Numeric Variable	Data Types	String Variable	Value of a variable	Operators	Assignment Statement	Property	VB keywords	Object	Intrinsic Functions	Method	Expression