Strings; Input and Output (I/O)

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Strings

- A *string constant* is a sequence of characters that is treated as a single item.
- A *string variable* is a name used to refer to a string

```plaintext
phrase = "The balance is"
picBox.Print phrase; " zero"
```
Concatenation

"concat"&"nation"

A combination of strings and ampersands that can be evaluated to form a string is called a string expression.
Declaring Variable Types (reminder)

Dim sentence As String
Dim length As Single

A Dim statement is said to declare a variable.
Named Constants

Const solarSystemPlanets As Single = 8
Using Text Boxes for Input and Output

strVar = txtBox.Text
txtBox.Text = strVar

numVar = Val(txtBox.Text)
txtBox.Text = Str(numVar)
The KeyPress Event Procedure

Private Sub ControlName_KeyPress(KeyAscii As Integer)
    statements
End Sub
Reading Data From Files

1. Choose a number \( n \) between 1 and 255
2. Open “filespec” For Input As \#n
3. Input \#n, \( \text{var} \)
4. Close \#n

*In the file, individual items are separated by commas or line breaks.*
Input Dialog Box

`stringVar = InputBox(prompt, title)`
Print Zones

When commas are used to separate items for the Print method, the items are displayed in consecutive 14-character print zones.
Tab Function

• If an item in a Print statement is preceded by Tab(n);

where n is a positive integer, then that item will be displayed (if possible) beginning at the \( n^{th} \) position of the line. The Tab function cannot be used to move the cursor to the left. If Position \( n \) is to the left of the cursor, the cursor will move to that position on the next line!
Dim wage As Single  ’Hourly pay