week9

February 21, 2018

1 String Methods

- Strings are the most used data types in most applications
- User input is treated as strings then converted to other data types to process
- Strings will have special functions to enable quick processing of strings

2 Discovering String Functions

- You can to read the VB documentation
- Google is your friend

  – Search for **visual basic string methods**

- Read also microsoft reference documents for VB

  – See here, and here
  – The documentation is richer, you have to search for what you need.

3 String Methods in VB

- Finding characher/string in a string
- Comparing strings
- Modifying strings
- ...more

4 Searching in strings

- String.IndexOf (read documentation first)

```
Dim str As String = "animal"
Dim index As Integer = str.IndexOf("n")
Dim index2 As Integer = str.IndexOf("mal")
Dim index3 As Integer = str.IndexOf("mak")
' what will index, index2, index3 be?
```

5 Other Search Methods

- Contains
- lastIndexOf
- StartsWith
- endsWith

5.0.1 Try searching google for each one to find out what it does

6 Comparing String

- String.Compare(str1, str2)
- Return 0 if str1 and str2 are equal
- returns > 0 if str1 precedes str2
- Returns < 0 if str2 follows str2

7 Modifying Strings

- See Modifying Strings documentation
- insert, remove, replace
- toLower, toUpper
- trim

8 Challenge

- Create an application with the following features
- Takes text input from user
- User can convert all text to lower case or upper case
- User can search for a letter or word in the text
- User can replace words/letters with other words/letters