

# week9

March 19, 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 character/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
- For text:
  - 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
  - Prevent user from performing these functions on Numbers
- For Numbers:
  - Find if number is double
  - Prevent user from performing function on Text