CSC 275   Computer Programming Concepts II
Credit Hours: 4.0

Module 3 - Weeks 5 & 6

Module Objectives

1. To introduce objects and instance methods (Liang Chpt 4.4).

2. To represent strings using the String object (Liang Chpt 4.4).

3. To return the string length using the length() method (Liang Chpt 4.4.1).

4. To return a character in the string using the charAt(i) method (Liang Chpt 4.4.2).

5. To use the + operator to concatenate strings (Liang Chpt 4.4.3).

6. To return an uppercase string or a lowercase string and to trim a string (Liang Chpt 4.4.4).

7. To read strings from the console (Liang Chpt 4.4.5).

8. To read a character from the console (Liang Chpt 4.4.6).

9. To compare strings using the equals method and the compareTo methods (Liang Chpt 4.4.7).

10. To obtain substrings (Liang Chpt 4.4.8).

11. To find a character or a substring in a string using the indexOf method (Liang Chpt 4.4.9).

12. To program using characters and strings (GuessBirthday) (Liang Chpt 4.5.1).

13. To use the String class to process immutable strings (Liang Chpt 10.10).

14. To use the StringBuilder and StringBuffer classes to process mutable strings (Liang Chpt 10.11).

Module Study Tasks:

- Please read your textbook:

   Chapter 4 (you should have already covered this in CSC225)

   Chapter 10.10 onwards, (its probably more sensible to read all Chapter 10)

- Watch the video demos for this module

- Attempt Programing exercises:
  4.22 (page 155), and 10.22 (page 406)

- View and respond as needed the CSC275 discussion board postings.

Reflective learning

Make entries in your reflective journal, write your reflections on this module, what you learnt, what you found interesting, the techniques you employed to deepen your learning of the material, the way you applied and modified your learning approach to meet the assessment tasks challenges.