# CS6308 Java Programming

## **Topic: String Handling**

### **ASSIGNMENT 7**

#### **Exercise 1.1: Practice string methods**

Write a java program to perform string methods by considering the given string inputs

String s1="Welcome to Java";

String s2=s1;

String s3=new String("Welcome to Java");

String s4=s1.intern();

#### Exercise 1.2: Write a program to show that String is immutable in java

#### **Exercise 2: String reverse**

Write a java program to read the string and displays the reverse of the string.

Hint: swap first character with last character until half of the string length

#### **Exercise 3: Letter occurrence**

Write a java program to count the number of occurrence of the each letter in the given string

#### **Exercise 4: Count Words**

Write a Java program to count the number of words in the given string

#### **Exercise 5: Palindrome and anagram**

Write a java program to check the given string is palindrome or not (Example: Race car)

Write a java program to check the given string is an gram or not (Example Iceman vs Cinema)

#### **Exercise 6: Comparison of product version number**

Write a java program that read a two string of the given format and compares the string

#### Example:

15.10.10 is greater than 14.20.50 as 15 >14

14.12.10 is greater than 14.10.55 as 12>10

14.10.15 is greter than 14.10.11 as 15>11

Hint:GivenString.split(\\.)

#### **Exercise 7: Email validity**

Write a java program <u>using String methods</u> to compare the email is valid is invalid and returns the username and domain name

- i) Valid Username: numbers[0-7], alphabets[a-z][A-Z], underscore, dot, hypen and plus characters
- ii) Presence of @ symbol
- iii) Presence of domainname.com or .in or .edu

Hint use givenstring.split("@") to find specific user(case-insensitive: jc\_vp) and specific domain (case-insensitive: gmail.com) for example jc\_vp@gmail.com.

#### **Exercise 8: Dictionary**

Write a java program to create a dictionary using 2D string array for any 10 programming languages. Write a method that return the definition for the input of PL name.

Java- pure object oriented programming language by James Gosling

C++ - Object oriented programming language by Stroustrup