Velammal College of Engineering and Technology, Madurai
Department of Computer Science and Engineering
Object oriented programming lab

Exercise 8

String Handling

Team 1

1. Write a Java program to find the second most frequent character in a given string.
   Sample Output
   The given string is: successes
   The second most frequent char in the string is: c
2. Write a program called **CaesarCode** to cipher the Caesar's code. The program shall prompt user for a plaintext string consisting of mix-case letters only; compute the ciphertext; and print the ciphertext in uppercase. For example,
   Enter a plaintext string: **Testing**
   The ciphertext string is: WHVWLQJ
   Caesar's Code is one of the simplest encryption techniques. Each letter in the plaintext is replaced by a letter some fixed number of position (n) down the alphabet cyclically. For ex. consider n=3. That is, 'A' is replaced by 'D', 'B' by 'E', 'C' by 'F', ..., 'X' by 'A', ..., 'Z' by 'C'.

Team 2

1. Write a Java program for sorting a given list of names in ascending order.
2. Write a Java program to print all permutations of a given string with repetition.
   Sample output The given string is: PQR
   The permuted strings are: PPP PPQ PPR ... RRP RRQ RRR

Team 3

1. Write a Java Program that reads a line of integers, and then displays each integer, and the sum of all the integers.
2. Write a Java program to print after removing duplicates from a given string.
   Sample output The given string is: w3resource
   After removing duplicates characters the new string is: w3resouc

Team 4

1. Write a java program that print the string in reverse order.
2. Write a Java program to find first non repeating character in a string

   Sample output

   The given string is: gibblegabbler

   The first non repeated character in String is: i

Team 5

1. Write a java program to check whether the given string is a palindrome
2. Write a Java program to divide a string in n equal parts.

   Sample output

   The given string is: abcdefghijklmnopqrstuvwxy

   The string divided into 5 parts and they are: abcde fghij klmno pqrst uvwxy

Team 6

1. Write a java program to check user name and password are equal. If it is equal concatenate the two Username and password.
2. Write a java program to find the duplicate words and their number of occurrences in a string

Team 7

1. Write a java program that reads a string from inputs containing first name, last name and computes an e-mail address with first 3 letters of the first name, first 4 letters of last name, '.' separator and domain. Display the outputs by invoking objects.
2. Write a program called **Bin2Dec** to convert an input binary string into its equivalent decimal number.

   Sample Output

   Enter a Binary string: **1011**

   The equivalent decimal number for binary "1011" is: 11

   Enter a Binary string: **1234**

   error: invalid binary string "1234"