Assignment 

Assignment # : 8

Topic : Strings

1. Write a Java program to accept a string from the user and calculate its length.
2. Write a Java program to accept 2 strings (string1 and string2) from the user. Concatenate both the strings into a third string “string3” and print the result.
3. Write a java program to accept a string from the user. Reverse the string and display it.(Use String Buffer or String Builder)
4. Write a Program that will check whether a given String is Palindrome or not.
5. Write a Java program to count the number of occurrences of a character in a String.

   Input : program r

   Output : 2
6. Write a Java program to accept a string from the user. Replace all vowels (‘a’, ‘e’, ‘I’, ‘o’, ‘u’) with ‘z’. If there are no vowels in the string just print the original word with the message “No vowels present”.
7. Write a Java program to accept a string from the user. Count and print the number of times each character occurs in the given string.

   Example :

   Input:String :“malayalam"

   Output:

   m – 2

a – 4

l – 2

y – 1

8. Write a Java program which accepts 2 strings from the user and performs the following operation on it.

   Example:

   string1 = “Hello” string2 = “World” string3 must be “HellodlroW”

9. Write a java program that takes as input a string as a Sentence and return its second word in uppercase. Note : if the input string(sentence) with less than 2 words, the code should print the word ”LESS”

   Sample Input:

   proHance Technologies Bangalore

   Sample Output:

   TECHNOLOGIES

   Sample Input:

   World Cup

   Sample Output:

   CUP

   Sample Input:

   Championship 2017 League

   Sample Output:

   2017

   Sample Input:

   Hello

   Sample Output

   LESS

10. A password is said to be strong if it satisfies the following criteria:

a) It contains at least one lowercase English character.[a-z]

b) It contains at least one uppercase English character. [A-Z]

c) It contains at least one special character. The special characters are : !@#$%^&*()-+[

d) Its length is at least 8.

e) It contains at least one digit.

Given a string, find its strength. Let a strong password is one that satisfies all above conditions. A moderate password is one that satisfies first three conditions and has length at least 6. Otherwise, password is weak.

11. Given two strings a and b. Write a Java function isAnagram () to check whether the two strings are anagram or not.

Note: An anagram of a string is another string that contains the same characters, only the order of characters can be different.

For example: Listen and Silent are anagrams

Character	Frequency: Listen	Frequency: Silent
L or l	1	1
I or i	1	1
S or s	1	1
T or t	1	1
E or e	1	1
N or n	1	1

Sample Input 1
anagramm
marganaa
Sample Output 1
Not Anagrams
ample Input 2
Listen

Silent
Sample Output 2
Anagrams

12. Write a Java program to print String after removing the duplicate characters from the given String.

Sample Input 1
Remove Duplicates
Sample Output 1
Remov Duplicats
Sample Input 2
Anagrams
Sample Output 2
Angrms