Strings

1   Analyse the following Code.

   a) String s1="hello"
       String s2="hello"
       System.out.println(s1==s2)
       System.out.println(s1.equals(s2));

   b) String s3=new String("hello");
       String s4=new String("hello");
       System.out.println(s3==s4)
       System.out.println(s3.equals(s4));

   c) String ss1="hello";
        ss1.toUpperCase();
        System.out.println(ss1);

2   Write a program to check for a palindrome.

3   Create a class **Validator** and define the following methods:
   a) validateEmail(String) – that reads an email address and
       validates.
           An email address should contain only one '@ ' and a '.'
           Followed by either com,org or edu.
   b) validatePassword(String) - that takes in password and validates.
           Password should be minimum of 8 characters should contain
           both alphabets and digits.(atleast 4 alphabets,3 digits)

4   Write a java program that reads n names and sorts them in
    alphabetical order.
    Write a method sortNames to perform the same.Write a main
    method in a separate class to implement the same.

5   Write a java program, that stores 5 passwords in an array of
    strings.Reads a password from the user and checks if the user has
    entered the correct password and displays appropriate messages.

6   Create an interactive Online Text Exam application, that allows user to take an objective online test, for every correct answer 1 mark is assigned.

User can review the question and change his answer after reading all the questions or can quit to see his score.