String in java Assignment 1

1.Write a java program to Reverse a string without using the inbuilt method.

Answer:

class Q1 {

    public static void main(String[] args) {

        StringBuffer s = new StringBuffer("pwskills");

        s.reverse();

        System.out.println(s); //sllikswp

    }

}

2.Write a java program to know whether the given string is palindrome

Answer:

import java.util.Scanner;

public class Q2 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.println("enter a String for checking Palindrome");

        String s1 = sc.nextLine();

        int i = 0, j = s1.length() - 1, flag = 0;

        while (i < j && flag == 0) {

            if (s1.charAt(i) != s1.charAt(j)) {

                flag = 1;

            }

            i += 1;

            j -= 1;

        }

        if (flag == 0) {

            System.out.println("Entered String is palindrome");

        } else {

            System.out.println("Entered String is not palindrome");

        }

    }

}

3.Write a java program to convert upper case to lower case and vice versa.

Answer:

public class Q3 {

    public static void main(String[] args) {

        String S1 = new String("PWSKILLS");

        String S2 = new String("pwSkills");

        System.out.println(S1.toLowerCase()); //pwskills

        System.out.println(S2.toUpperCase()); //PWSKILLS

    }

}

4.Write a java program to remove a particular character from a String.

Answer:

public class Q4 {

    public static void main(String[] args) {

        String name = "sachin";

        StringBuffer S = new StringBuffer(name);

        S.deleteCharAt(2);

        System.out.println(S); //sahin

    }

}

5.Write a java program to find the index of a substring.

Answer:

import java.util.Scanner;

public class Q5 {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter a string: ");

        String str = scanner.nextLine();

        System.out.print("Enter a substring: ");

        String substring = scanner.nextLine();

        int index = findSubstringIndex(str, substring);

        if (index != -1) {

            System.out.println("Substring found at index: " + index);

        } else {

            System.out.println("Substring not found.");

        }

    }

    public static int findSubstringIndex(String str, String substring) {

        int strLength = str.length();

        int subLength = substring.length();

        for (int i = 0; i <= strLength - subLength; i++) {

            int j;

            for (j = 0; j < subLength; j++) {

                if (str.charAt(i + j) != substring.charAt(j)) {

                    break;

                }

            }

            if (j == subLength) {

                return i;

            }

        }

        return -1;

    }

}

// Write a java program to find the index of a substring.