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**Batch:MCA-B**

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**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 16**

**Aim**

Perform string manipulations

**Procedure**

import java.util.\*;

class StringManip

{

String s1;

String s2;

int len;

Scanner sc=new Scanner(System.in);

String concat\_string(String str1,String str2)

{

return str1.concat(str2);

}

int countLength(String str1)

{

return str1.length();

}

String caseConvert(String str1)

{

if(str1.equals(str1.toUpperCase()))

return str1.toLowerCase();

else

return str1.toUpperCase();

}

String replaceSubstring(String str1,String str2,String str3)

{

return str1.replace(str3,str2);

}

String sortString(String str1)

{

char[] a=new char[str1.length()];

a=str1.toCharArray();

Arrays.sort(a);

str1=new String(a);

return str1;}

int returnCharPos(String str1,char ch)

{return str1.indexOf(ch);

}}

public class StringManipulation

{

public static void main(String args[])

{

StringManip ob=new StringManip();

int opt;

String str1,str2,str3;

char ch;

Scanner sc=new Scanner(System.in);

do

{

System.out.println("\_\_\_\_\_\_\_\_\_\_Menu\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println(" 1. FIND AN INDEX OF A CHARACTER IN A STRING");

System.out.println(" 2. CONCATENATE TWO STRINGS");

System.out.println(" 3. REPLACE A SUBSTRING");

System.out.println(" 4. SEE THE LENGTH OF A STRING");

System.out.println(" 5. CONVERT THE CASE OF STRING");

System.out.println(" 6. EXIT");

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("Enter your option=");

opt=sc.nextInt();

switch(opt)

{

case 1: sc.nextLine();

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

str1=sc.nextLine();

System.out.println(" Enter a character to be searched: ");

ch=sc.next().charAt(0);

System.out.println(" The character "+ch+" found at "+ob.returnCharPos(str1,ch)+" in the string "+str1);

break;

case 2: sc.nextLine();

System.out.println(" Enter string 1: ");

str1=sc.nextLine();

System.out.println(" Enter string 2: ");

str2=sc.nextLine();

System.out.println("After concatenating the above string, we get "+ob.concat\_string(str1,str2));

break;

case 3: sc.nextLine();

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

str1=sc.nextLine();

System.out.println(" Enter a word: ");

str2=sc.nextLine();

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

str3=sc.nextLine();

if(str1.contains(str3))

System.out.println("Replacing "+str3+" with the word "+str2+" and the result is : "+ob.replaceSubstring(str1,str2,str3));

else

System.out.println(" Substring do not match !!!");

break;

case 4: sc.nextLine();

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

str1=sc.nextLine();

System.out.println(" The length of the string is : "+ob.countLength(str1));

break;

case 5: sc.nextLine();

System.out.println(" Enter a string to be converted: (Enter either in capital or not)");

str2=sc.nextLine();

if(str2.equals(str2.toUpperCase())==false && str2.equals(str2.toLowerCase())==false)

System.out.println(" Enter in correct format\n");

System.out.println(" The converted string is : "+ob.caseConvert(str2));

break;

case 6: System.exit(0);

default: System.out.println(" INVALID CHOICE !!!");

}}

while(opt!=6);

}}

**Output Screenshot**

