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Roll No.:- 25

Batch:- A1

Semester:-4th

Shift:- 1st

Section:- A

PRACTICAL-2

Solution:-

```java
package Second;

import java.util.Scanner;

public class MyString {
    String s1;
    char ch[]=new char[100];

    public MyString() {

    }
    public MyString(String s) {
        this.s1=s;
        this.ch=new char[s.length()];
        this.ch=s.toCharArray();
    }
    public int lengthString() {
        int c=0;
        for(char c1 : this.ch) {
        c++;
        }
        return c;
    }

    public MyString concatenateString(MyString s2) {
        char cm[] = new char[s1.length()+s2.s1.length()];
        for(int k=0;k<s1.length();k++) {
            cm[k]=ch[k];
```

```java
            }
            char c2[]=s2.s1.toCharArray();
            int l=s1.length();
            int j=0;
            for(char i :c2){
                    cm[l]=c2[j];
                    l++;
                    j++;
            }
            this.s1=new String(cm);
            this.ch=cm;
            return this;
    }

    public MyString reversing(){
            char p[] = new char[s1.length()];
            int j=0;
            int m= ch.length;
            for(int i=m-1;i>=0;i--) {
                    p[j]=ch[i];
                    j++;
            }
            String nst = new String(p);
            MyString ns = new MyString();
            this.s1=nst;
            this.ch=p;
            return this;
    }

    public int compare(MyString s2) {
            int l1=this.s1.length();
            int l2=s2.s1.length();
            char ch2[]=s2.s1.toCharArray();
            if(l1==l2) {
            for(int i=0;i<this.s1.length();i++){
            if(ch[i]<ch2[i]) {
                    return -1;
            }
            else if(ch[0]==ch2[0]) {
                    return 0;
            }
            else {
                    return 1;
            }
            }
            }
            else if(l2>l1){
                    return 1;
            }
            return -1;
    }

    public boolean compareString(MyString s2) {
            int m1=s1.length();
            int m2=s2.s1.length();
            int flag=0;
            char ch2[] = s2.s1.toCharArray();
```

```java
        if(m1==m2){
                for(int i=0;i<m1;i++) {
                        if(ch[i]!=ch2[i]) {
                                return false;
                        }
                        return true;
                }
        }
                return false;
    }

    public MyString replaceEvery(char a,MyString s2) {
        char ch2[] = s2.s1.toCharArray();
        int count=0;
        for(int j=0;j<ch.length;j++) {
                if(ch[j]==a){
                        count++;
                }
        }
        char ch3[]=new char[s1.length()+count*s2.s1.length()-count];
        int i=0;
        for(char c1:ch) {
                if(c1==a) {
                        for(char c2:ch2) {
                                ch3[i]=c2;
                                i++;
                        }
                }
                else {
                        ch3[i]=c1;
                        i++;
                }
        }
        this.s1=new String(ch3);
        return this;
    }

    public void display() {
        System.out.println("String is : "+s1);
    }

    public static void main(String[] args) {
        MyString str=new MyString("ffun");
        str.display();
        MyString str2=new MyString("games");
        int m=str.lengthString();
        System.out.println("Length of the string is : "+m);
        str.concatenateString(str2);
        str.display();
        str.reversing();
        str.display();
        int p=str.compare(str2);
        if(p==1) {
                System.out.println("Second String is greater");
        }
        else if(p==0) {
                System.out.println("Both the strings are equal");
```

```java
            }
            else {
                    System.out.println("First String is greater");
            }
            boolean t=str.compareString(str2);
            if(t){
                    System.out.println("Both the strings are equal");
            }
            else {
                    System.out.println("Both the strings are not equal");
            }
            str=str.replaceEvery('f',str2);
            str.display();
        }
}
```

Output:

```
String is : ffun
Length of the string is : 4
String is : ffungames
String is : semagnuff
First String is greater
Both the strings are not equal
String is : semagnugamesgames
```