EXPERIMENT NUMBER: 5

AIM

Program to Sort strings.

ALGORITHM

PROGRAM CODE

```
import java.util.*;
class SortMain
 {
   public static void main (String args[])
   {
     int ch;
      int n,i,j;
     String t;
     Scanner sc = new Scanner(System.in);
     System.out.println("Read No.of Strings:");
     n=sc.nextInt();
     String str[]= new String[n];
     System.out.println("Read Strings:");
     for(i=0;i<n;i++)
     {
      str[i]=sc.next();
     }
     while(true)
     {
     System.out.println("Enter the choice-->\n1.WITH FUCTION\n2.WITHOUT
FUNCTION:\n3.RETURN");
     ch=sc.nextInt();
     switch (ch)
      {
        case 1: Arrays.sort(str);
                System.out.println(Arrays.toString(str));
                break;
```

```
        case 2: for(i=0;i<n;i++)
                {
                  for(j=i+1;j<n;j++)
                  {
                    if(str[i].compareTo(str[j])>0)
                    {
                    t=str[i];
                    str[i]=str[j];
                    str[j]=t;
                    }}}
                  for(i=0;i<n;i++)
                  {
                   System.out.println(str[i]);
                  }
                  break;
          case 3:return;
        default: System.out.println("iNVALID!!!");
      }
     }
    }
}
```

OUTPUT

```
PS C:\Users\USER\Desktop\OOPL> javac SortMain.java
PS C:\Users\USER\Desktop\OOPL> java SortMain
Read No.of Strings:
4
Read Strings:
mango
orange
grapes
apple
Enter the choice-->
1.WITH FUCTION
2.WITHOUT FUNCTION:
3.RETURN
1
[apple, grapes, mango, orange]
Enter the choice-->
1.WITH FUCTION
2.WITHOUT FUNCTION:
3.RETURN
2
apple
grapes
mango
orange
Enter the choice-->
1.WITH FUCTION
2.WITHOUT FUNCTION:
3.RETURN
3
PS C:\Users\USER\Desktop\OOPL>
```

EXPERIMENT NUMBER: 6

AIM

Perform string manipulations.

ALGORITHM

PROGRAM CODE

```
import java.util.*;

class StrManip

{

public static void main (String args[])

{

String s1= new String("Apple Fruit");

String s2= new String("Culture");

int d=234;

System.out.println("1ST String: "+s1);

System.out.println("2nd String: "+s2);

System.out.println("Length of 1ST STRING: "+s1.length());

System.out.println("Concatenation:"+s1.concat(s2));

System.out.println("Character Extraction of 2nd string (2nd char):"+s2.charAt(1));

System.out.println("SubString of String 1: "+s1.substring(0,3));

System.out.println("String Modification: "+s1.replace("Apple","Mango"));

System.out.println("To lowercase: "+s1.toLowerCase()+"\nTo
Uppercase:"+s2.toUpperCase());

System.out.println("String Comparison:\ns1==s2? "+s1.equals(s2)+"\ns1>s2?
"+(s1.compareTo(s2)>0));

System.out.println("Data Coversion:"+s1.valueOf(d));

}

}
```

OUTPUT

```
developer@ccfl6-pc24:~/24mcas2/oops$ javac StrManip.java
developer@ccfl6-pc24:~/24mcas2/oops$ java StrManip
1ST String: Apple Fruit
2nd String: Culture
Length of 1ST STRING: 11
Concatenation:Apple FruitCulture
Character Extraction of 2nd string (2nd char):u
SubString of String 1: App
String Modification: Mango Fruit
To lowercase: apple fruit
To Uppercase:CULTURE
String Comparison:
s1==s2? false
s1>s2? false
Data Coversion:234
developer@ccfl6-pc24:~/24mcas2/oops$
```

EXPERIMENT NUMBER: 7

AIM

Program to create a class for Employee having attributes eNo, eName eSalary. Read n employ information and Search for an employee given eNo, using the concept of Array of Objects.

ALGORITHM

PROGRAM CODE

```
import java.util.*;
class Employee
{
int eno,salary;
String ename;
Employee(int eno,int salary,String ename)
{
this.eno=eno;
this.salary=salary;
this.ename=ename;
}
void display()
{
System.out.println("Employee ID: "+eno);
System.out.println("Employee Name: "+ename);
System.out.println("Employee Salary: "+salary);
System.out.println("---------------------------");
}
}
class EmployeeMain
{
public static void main(String args[])
{
int n,id,sal,i,en,f=0;
String name;
Scanner sc=new Scanner(System.in);
System.out.println("Enter the no of Employees");
```

```
n=sc.nextInt();
Employee employee[]=new Employee[n];
for (i=0;i<n;i++)
{
System.out.println("Read Details");
System.out.print("Employee ID: ");
id=sc.nextInt();
System.out.print("Employee Name: ");
name=sc.next();
System.out.print("Employee SAlary: ");
sal=sc.nextInt();

Employee emp=new Employee(id,sal,name);
employee[i]=emp;
}
System.out.println("Employee Detailss\n_____\n");
for (i=0;i<n;i++)
{
employee[i].display();
}
System.out.println("Enter the id to be searched:");
en=sc.nextInt();
for(i=0;i<n;i++)
{
if(employee[i].eno==en)
{
System.out.println("Employee Found....");
employee[i].display();
```

```
f=1;
}
}
if(f==0)
{
System.out.println("Employee NOt Found!!!!!");
}
}
}
```

OUTPUT

```
developer@ccfl6-pc24:~/24mcas2/oops$ javac EmployeeMain.java
developer@ccfl6-pc24:~/24mcas2/oops$ java  EmployeeMain
Enter the no of Employees
3
Read Details
Employee ID: 1
Employee SAlary: 23443
Employee Name: dsdsd
Read Details
Employee ID: 2
Employee SAlary: 43466
Employee Name: gfgd
Read Details
Employee ID: 3
Employee SAlary: 6567
Employee Name: fddfg
Employee Detailss
_____________

Employee ID: 1
Employee Name: dsdsd
Employee Salary: 23443
---------------------------
Employee Detailss
_____________

Employee ID: 2
Employee Name: gfgd
Employee Salary: 43466
---------------------------
---------------------------
Employee Detailss
_____________

Employee ID: 2
Employee Name: gfgd
Employee Salary: 43466
---------------------------
```

```
Employee Detailss
_____________

Employee ID: 3
Employee Name: fddfg
Employee Salary: 6567
--------------------------
Enter the id to be searched:
4
Employee NOt Found!!!!!
developer@ccfl6-pc24:~/24mcas2/oops$
```