6. Program to Sort strings

Code :

```
import java.util.Scanner;
import java.util.Arrays;
public class StringSort {
int n;
String temp;
String a[]=new String[10];
Scanner sc=new Scanner(System.in);
StringSort(int size){
n=size;
}
public void read(){
System.out.println("Enter the strings:");
for(int  i=0;i<n;i++){
a[i]=sc.nextLine();
}
}
public void sort(){
for(int i=0;i<n;i++){
for(int j=i+1;j<n;j++){
if(a[i].compareTo(a[j])>0){
temp = a[i];
a[i] = a[j];
a[j] = temp;
}
}
}
System.out.println("Sorted Strings:");
for(int i=0;i<n;i++){
System.out.println(a[i]);
}
}
public static void main(String[] args) {
System.out.println("Name : TOBIN K TOMY\nRoll No : 23MCA059\nDate :
26/03/2024");
System.out.println("Program 6: Program to Sort strings");
int n;
Scanner sc=new Scanner(System.in);
System.out.println("Enter the no of strings");
n=sc.nextInt();
StringSort s1=new StringSort(n);
s1.read();
```

```
s1.sort();
}
}
```

7. Search an element in an array.

Code :

```
import java.util.*;
class Array
{
public static void main(String args[])
{
System.out.println("Name : TOBIN K TOMY\nRoll No : 23MCA059\nDate :
26/03/2024");
System.out.println("Program 7: Search an element in an array");
Scanner sc = new Scanner(System.in);
int i,n,search,flag=0;
System.out.println("Enter the number of elements:") ;
n = sc.nextInt();
int[] a = new int[n];
System.out.println("Enter the elements") ;
for(i=0;i<n;i++)
{
a[i] = sc.nextInt();
}
System.out.println("Enter the element to be searched");
search = sc.nextInt();

/*Perform search operation*/
for(i=0;i<n;i++)
{
if(a[i]==search)
{
System.out.println("Element "+search+" found at "+(i+1)+" position");
flag=1;
break;
}
}
if(flag==0)
{
System.out.println("Element"+search+" not found");
}
}
}
```

8. Perform string manipulations

Code :

```
import java.util.Scanner;

class Manipulation{
   public static void main(String arg[]){
       System.out.println("Name : TOBIN K TOMY\nRoll No : 23MCA059\nDate :
       26/03/2024");
       System.out.println("Program 8: Perform string manipulations");
       Scanner scanner = new Scanner(System.in);
       System.out.print("Enter a String : ");
       String str = scanner.nextLine();

       System.out.println("\nString is : " + str);
       System.out.println("Length of the string is : " + str.length());
       System.out.println("Character at the first position is : " + str.charAt(0));
       System.out.println("LOWERCASE : "+str.toLowerCase());
       System.out.println("UPPERCASE : "+str.toUpperCase());

       System.out.print("Enter a string to Concatenate : ");
       String conStr = scanner.nextLine();
       System.out.println("Concatenated String: "+(str.concat(conStr)));

       System.out.print("Enter a substring to check : ");
       String subStr = scanner.nextLine();
       if(str.contains(subStr)) {
       System.out.println("String '" + str + "' contains the substring '" + subStr + "'");
       }
       else{
       System.out.println("String '" + str + "' not contains the substring '" + subStr +
      "'");
       }
       scanner.close();
   }
}
```

9. 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.

Code :

```
import java.util.Scanner;
public class Emp
{
int  eno;
String ename;
int esalary ;
public void Emp(int no,String s ,int sal)
{
this.eno = no;
this.ename = s;
this.esalary = sal;
}
void getdata()
{
Scanner sc=new Scanner(System.in);
System.out.println("enter employee id :");
eno =sc.nextInt();
System.out.println("enter employee name : ");
ename = sc.next();
System.out.println("enter employee salary:");
esalary = sc.nextInt();
}
void display()
{
System.out.println("employee id is : "+eno);
System.out.println("employee name is : "+ename);
System.out.println("employee salary is : "+esalary);
}
public static void main(String[] args)
{
System.out.println("Name : TOBIN K TOMY\nRoll No : 23MCA059\nDate :
26/03/2024");
System.out.println("Program 9: 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.");
int a,i,fl;
System.out.println("enter the number of employees:");
Scanner sc1=new Scanner(System.in);
```

```
int n=sc1.nextInt();
Emp e1[]=new Emp[n];
for(i=0;i<n;i++)
{
System.out.println("Enter details of employee "+(i+1));
e1[i]=new Emp();
e1[i].getdata();
}
System.out.println("Employee details are:");
for ( i = 0; i <n; i++)
{
System.out.println("details of employee "+(i+1)+ " are:");
e1[i].display();
}
System.out.println("Enter employe id to be searched for:");
a=sc1.nextInt();
for(i=0;i<n;i++)
{
if(a==e1[i].eno)
{
fl=1;
break;
}
}
System.out.println("details of corresponding employee are:");
e1[i].display();
}
}
```