```
Program:6
Aim: Program to Sort strings
Source Code:
import java.util.Arrays;
import java.util.Scanner;
public class StringSorter {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.println("Anna S,Roll No:18,26/02/2024.program6:Program to Sort strings");
System.out.print("Enter the number of strings: ");
int numberOfStrings = scanner.nextInt();
scanner.nextLine();
String[] strings = new String[numberOfStrings];
for (int i = 0; i < numberOfStrings; i++) {
System.out.print("Enter string " + (i + 1) + ": ");
strings[i] = scanner.nextLine();
}
Arrays.sort(strings);
System.out.println("\nSorted Strings:");
for (String str : strings) {
System.out.println(str);
scanner.close();
}
```

Output:

```
mca@ZZ38-UL:~/annajava$ javac StringSorter.java
mca@ZZ38-UL:~/annajava$ java StringSorter
Anna S,Roll No:18,26/02/2024.program6:Program to Sort strings
Enter the number of strings: 3
Enter string 1: grapes
Enter string 2: apple
Enter string 3: mango

Sorted Strings:
apple
grapes
mango
mca@ZZ38-UL:~/annajava$
```

```
Program:7
 Aim: Search an element in an array.
 Source Code:
import java.util.Scanner;
public class ArraySearch {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.println("Anna s,Roll No:18,26/02/2024,program7:Search an element in an array.");
System.out.print("Enter the number of elements in the array: ");
int size = scanner.nextInt():
int[] array = new int[size];
System.out.println("Enter the elements of the array:");
for (int i = 0; i < size; i++) {
System.out.print("Element " +(i + 1) + ": ");
array[i] = scanner.nextInt();
System.out.print("Enter the element to search: ");
int searchElement = scanner.nextInt();
boolean found = false;
for (int i = 0; i < size; i++) {
if (array[i] == searchElement) {
found = true:
break:
}}
if (found) {
System.out.println(searchElement + " is present in the array.");
} else {
System.out.println(searchElement + " is not present in the array.");
scanner.close();
}}
Output:
 mca@Z238-UL:~/annajava$ javac ArraySearch.java
 mca@Z238-UL:~/annajava$ java ArraySearch
Anna s,Roll No:18,26/02/2024,program7:Search an element in an array.
 Enter the number of elements in the array: 3
 Enter the elements of the array:
 Element 1: 23
 Element 2: 45
 Element 3: 12
 Enter the element to search: 12
 12 is present in the array.
 mca@Z238-UL:~/annajava$
```

Program:8

Aim: Perform string manipulations.

Source Code:

```
import java.util.Scanner;
public class StringMan{
public static void main(String[] args) {
    System.out.println(" \nName:Anna S\n23MCA018\n14-Mar-2023\n");
    System.out.println("Enter The String");
    Scanner sc = new Scanner(System.in);
    String str1 = sc.nextLine();
    System.out.println("Length of String = "+str1.length());
    System.out.println("Character at First position = "+str1.charAt(0));
    System.out.println("String Contains 'o' sequence :"+str1.contains("o"));
    System.out.println("String ends with e : "+str1.endsWith("e"));
    System.out.println("Replace'o' with 'u' : "+str1.replaceAll("o","u"));
    System.out.println("LOWERCASE : "+str1.toLowerCase());
    System.out.println("UPPERCASE : "+str1.toUpperCase());
}
```

Output:

```
mca@ZZ38-UL:~/annajava$ javac StringMan.java
mca@ZZ38-UL:~/annajava$ java StringMan

Name:Anna S
23MCA018
14-Mar-2023

Enter The String
hello world
Length of String = 11
Character at First position = h
String Contains 'o' sequence :true
String ends with e : false
Replace'o' with 'u' : hellu wurld
LOWERCASE : hello world
UPPERCASE : HELLO WORLD
mca@ZZ38-UL:~/annajava$
```

Program:9

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.

Source Code:

```
import java.util.Scanner;
public class employee {
int eNo;
String eName;
double eSalary;
public void getdetails(){
System.out.println("\nEnter the Employee details");
Scanner sc = new Scanner(System.in);
System.out.println("Employee number : ");
eNo=sc.nextInt();
System.out.println("Name : ");
sc.nextLine();
eName=sc.nextLine();
System.out.println("Salary : ");
eSalary=sc.nextDouble();
}
void display(){
System.out.println("Empolyee No:"+eNo);
System.out.println("Name :"+eName);
System.out.println("Salary Amount"+eSalary+"\n");
public static void main(String[] args) {
System.out.println("Anna S \n23MCA018 \n14-Mar-2023");
System.out.println("\nEnter the No. of Employee's");
Scanner sc1 = new Scanner(System.in);
int num = sc1.nextInt();
employee arr[]=new employee[num];
for(int i = 0; i < num; i++){
arr[i]=new employee();
arr[i].getdetails();
System.out.println("\nInformations of all the employee's");
for(int i=0;i< num;i++){
arr[i].display();
boolean state = false:
System.out.println("\nEnter the Employee Number to get details of a employee");
int num2= sc1.nextInt();
```

```
for(int i=0;i< num;i++){
if(arr[i].eNo==num2){
System.out.println("\nEmployee details");
arr[i].display();
}
}
```

Output:

```
mca@Z238-UL:~$ cd annajava
mca@Z238-UL:~{annajava$ javac employee.java
mca@Z238-UL:~{annajava$ java employee
Anna 5
23MCA018
14-Mar-2023
 Enter the No. of Employee's
Enter the Employee details
Employee number :
1
Name :
Anna
Salary :
50000
Enter the Employee details
Employee number :
 Name :
Sara
Salary :
60000
Enter the Employee details
Employee number :
 Name :
Richa
Salary :
30000
Informations of all the employee's
Empolyee No :1
Name :Anna
Salary Amount50000.0
Empolyee No :2
Name :Sara
Salary Amount60000.0
Empolyee No :3
Name :Richa
Salary Amount30000.0
Enter the Employee Number to get details of a employee
 Employee details
Empolyee No :2
Name :Sara
Salary Amount60000.0
 mca@Z238-UL:~/annajava$
```