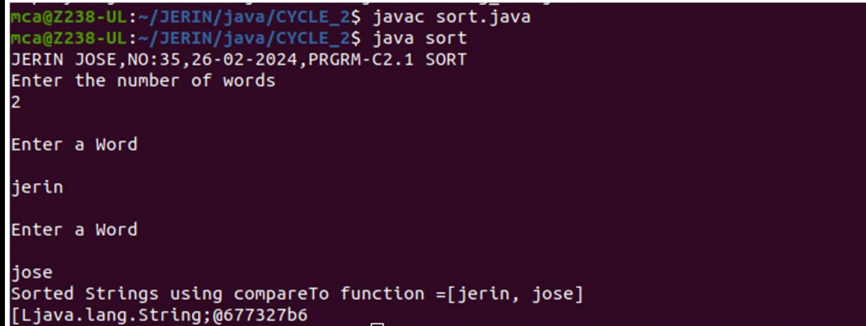**Program 6:**

Aim: Program to Sort strings

Source Code:

```
import java.util.Arrays;
public class sort {
public static void main(String[] args) {
System.out.println("JERIN JOSE \n 23MCA035 \n 26-02-2024");
String[] strings = {"orange", "apple", "cherry", "banana"};
System.out.println("Original array: " + Arrays.toString(strings));
Arrays.sort(strings);
System.out.println("Sorted array: " + Arrays.toString(strings));
}
}
```

Output:

```
mca@Z238-UL:~/JERIN/java/CYCLE_2$ javac sort.java
mca@Z238-UL:~/JERIN/java/CYCLE_2$ java sort
JERIN JOSE,NO:35,26-02-2024,PRGRM-C2.1 SORT
Enter the number of words
2

Enter a Word

jerin

Enter a Word

jose
Sorted Strings using compareTo function =[jerin, jose]
[Ljava.lang.String;@677327b6
```
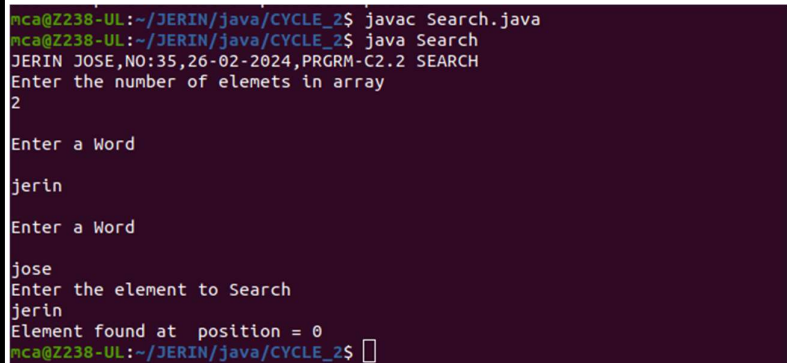
Program 7:

Aim: Search an element in an array.

Source Code:

```
public class ArraySearch {
public static void main(String[] args) {
System.out.println("JERIN JOSE\n 23MCA035 \n 26-02-2024");
int[] array = { 1, 5, 9, 2, 4, 7 };
int target = 9;
boolean found = false;

for (int i = 0; i < array.length; i++) {
if (array[i] == target) {
found = true;
break;
}
}

if (found) {
System.out.println("Element " + target + " found in the array.");
} else {
System.out.println("Element " + target + " not found in the array.");
}
}
}
```
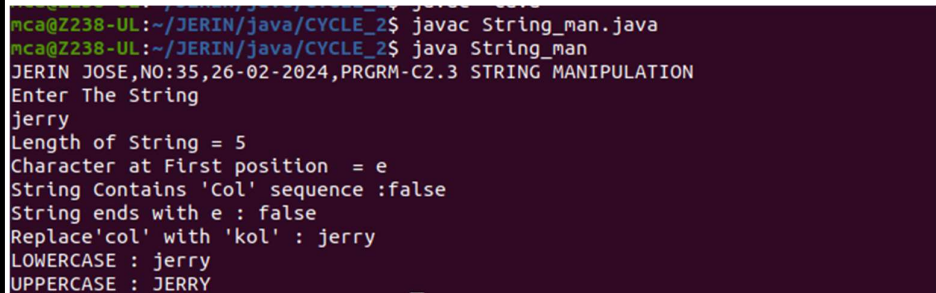
Output:

```
mca@Z238-UL:~/JERIN/java/CYCLE_2$ javac Search.java
mca@Z238-UL:~/JERIN/java/CYCLE_2$ java Search
JERIN JOSE,NO:35,26-02-2024,PRGRM-C2.2 SEARCH
Enter the number of elemets in array
2

Enter a Word

jerin

Enter a Word

jose
Enter the element to Search
jerin
Element found at  position = 0
mca@Z238-UL:~/JERIN/java/CYCLE_2$
```

Program 8:

Aim: Perform string manipulations

Source Code:

```java
import java.util.Scanner;
public class Stringman{
public static void main(String[] args){
System.out.println("JERIN JOSE \n 23MCA035 \n 26-02-2024");
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(1));
System.out.println("String Contains'Col'sequence :"+str1.contains("Col"));
System.out.println("String ends with e :"+str1.endsWith("e"));
System.out.println("Replace'col'with'kol':"+str1.replaceAll("col","kol"));
System.out.println("LOWERCASE:"+str1.toLowerCase());
System.out.println("UPPERCASE:"+str1.toUpperCase());
}
}
```

Output:

```
mca@Z238-UL:~/JERIN/java/CYCLE_2$ javac String_man.java
mca@Z238-UL:~/JERIN/java/CYCLE_2$ java String_man
JERIN JOSE,NO:35,26-02-2024,PRGRM-C2.3 STRING MANIPULATION
Enter The String
jerry
Length of String = 5
Character at First position  = e
String Contains 'Col' sequence :false
String ends with e : false
Replace'col' with 'kol' : jerry
LOWERCASE : jerry
UPPERCASE : JERRY
```

Program9:

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:
```java
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("JERIN JOSE \n 23MCA035 \n 26-02-2024");
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:~/JERIN/java/CYCLE_2$ javac employee.java
mca@Z238-UL:~/JERIN/java/CYCLE_2$ java employee
JERIN JOSE,NO:35,26-02-2024,PRGRM-C2.4 EMPLOYEE

Enter the No. of Employee's
2

Enter the Employee details
Employee number :
1
Name :
jerin
Salary :
23000

Enter the Employee details
Employee number :
2
Name :
jery
Salary :
33000

Informations of all the employee's
Empolyee No :1
Name :jerin
Salary Amount23000.0

Empolyee No :2
Name :jery
Salary Amount33000.0


Enter the Employee Number to get details of a employee
2

Employee details
Empolyee No :2
Name :jery
Salary Amount33000.0
```