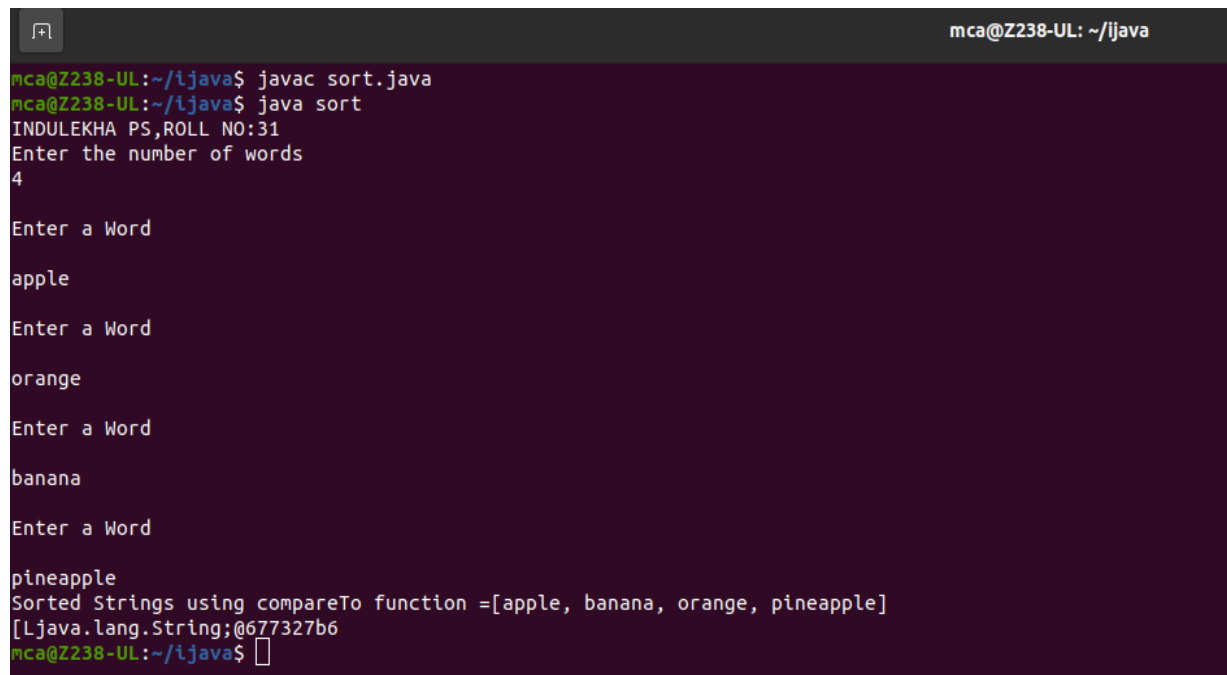


**Program6:****Aim: Program to sort strings.****Source Code:**

```
import java.util.Scanner;
import java.util.Arrays;
public class sort {
    public static void main(String[] args) {
        int i,j;
        Scanner sc = new Scanner(System.in);
        System.out.println("INDULEKHA PS,ROLL NO:31");
        System.out.println("Enter the number of words");
        int num=sc.nextInt();
        String word[]=new String[num];
        sc.nextLine();
        for( i=0;i<num;i++){
            System.out.println("\nEnter a Word\n");
            word[i]=sc.nextLine();
        }
        for( i=0;i<num-1;i++){
            for( j=i+1;j<num;j++){
                if(word[i].compareTo(word[j])>0){
                    String temp = word[i];
                    word[i]=word[j];
                    word[j]=temp;
                }
            }
        }
        System.out.println("Sorted Strings using compareTo function =" +Arrays.toString(word));
        System.out.println(word);
    }
}
```

**Output:**A terminal window with a dark purple background and a grey title bar. The title bar contains a window icon and the text 'mca@Z238-UL: ~/ijava'. The terminal shows the following text:

```
mca@Z238-UL:~/ijava$ javac sort.java
mca@Z238-UL:~/ijava$ java sort
INDULEKHA PS,ROLL NO:31
Enter the number of words
4

Enter a Word
apple

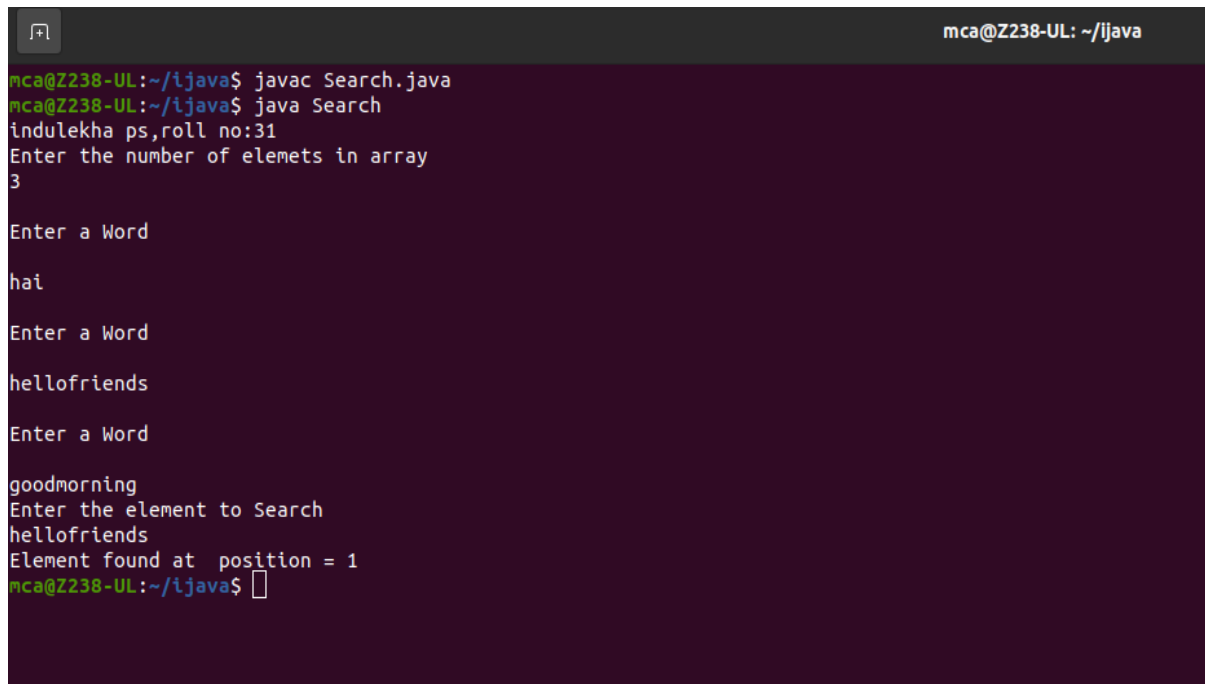
Enter a Word
orange

Enter a Word
banana

Enter a Word
pineapple
Sorted Strings using compareTo function =[apple, banana, orange, pineapple]
[Ljava.lang.String;@677327b6
mca@Z238-UL:~/ijava$
```

**Program7:****Aim: Search an element in an array.****Source Code:**

```
import java.util.Scanner;
public class Search {
    public static void main(String[] args) {
        int i,j,x=0;
        boolean state = false;
        Scanner sc = new Scanner(System.in);
        System.out.println("indulekha ps,roll no:31");
        System.out.println("Enter the number of elemets in array");
        int num=sc.nextInt();
        String word[]=new String[num];
        sc.nextLine();
        for( i=0;i<num;i++){
            System.out.println("\nEnter a Word\n");
            word[i]=sc.nextLine();
        }
        System.out.println("Enter the element to Search");
        String search = sc.nextLine();
        for( i=0;i<num;i++){
            if(word[i].equals(search)){
                x = i;
                state = true;
            }
        }
        if(state){
            System.out.println("Element found at position = "+x);
        }
        else{
            System.out.println("Element found not found");
        }
    }
}
```

**Output:**

```
mca@Z238-UL: ~/ijava
mca@Z238-UL:~/ijava$ javac Search.java
mca@Z238-UL:~/ijava$ java Search
indulekha ps,roll no:31
Enter the number of elemets in array
3

Enter a Word

hai

Enter a Word

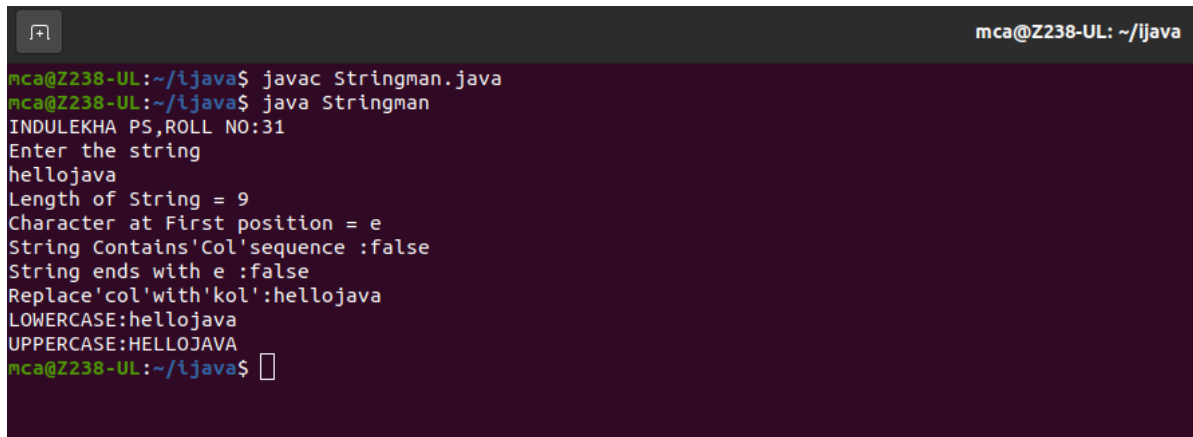
hellofriends

Enter a Word

goodmorning
Enter the element to Search
hellofriends
Element found at position = 1
mca@Z238-UL:~/ijava$
```

**Program8:****Aim: Perform string manipulations****Source Code:**

```
import java.util.Scanner;
public class Stringman{
    public static void main(String[] args){
        System.out.println("INDULEKHA PS,ROLL NO:31");
        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: ~/ijava
mca@Z238-UL:~/ijava$ javac Stringman.java
mca@Z238-UL:~/ijava$ java Stringman
INDULEKHA PS,ROLL NO:31
Enter the string
hellojava
Length of String = 9
Character at First position = e
String Contains'Col'sequence :false
String ends with e :false
Replace'col'with'kol':hellojava
LOWERCASE:hellojava
UPPERCASE:HELLOJAVA
mca@Z238-UL:~/ijava$
```

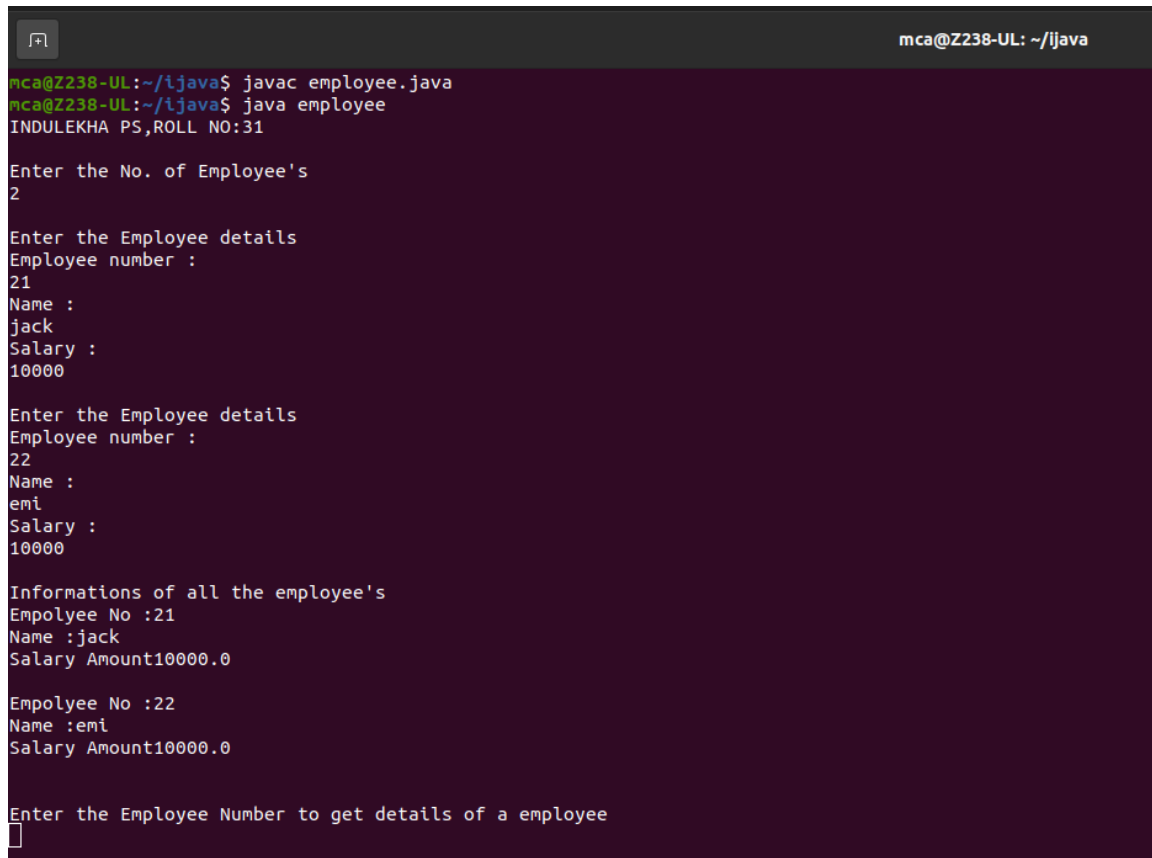
**Program9:**

**Aim: Program to create a class for employee having attributes eno,ename and 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;
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("INDULEKHA PS,ROLL NO:31");
        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: ~/ijava
mca@Z238-UL:~/ijava$ javac employee.java
mca@Z238-UL:~/ijava$ java employee
INDULEKHA PS,ROLL NO:31

Enter the No. of Employee's
2

Enter the Employee details
Employee number :
21
Name :
jack
Salary :
10000

Enter the Employee details
Employee number :
22
Name :
emi
Salary :
10000

Informations of all the employee's
Empolyee No :21
Name :jack
Salary Amount10000.0

Empolyee No :22
Name :emi
Salary Amount10000.0

Enter the Employee Number to get details of a employee

```

