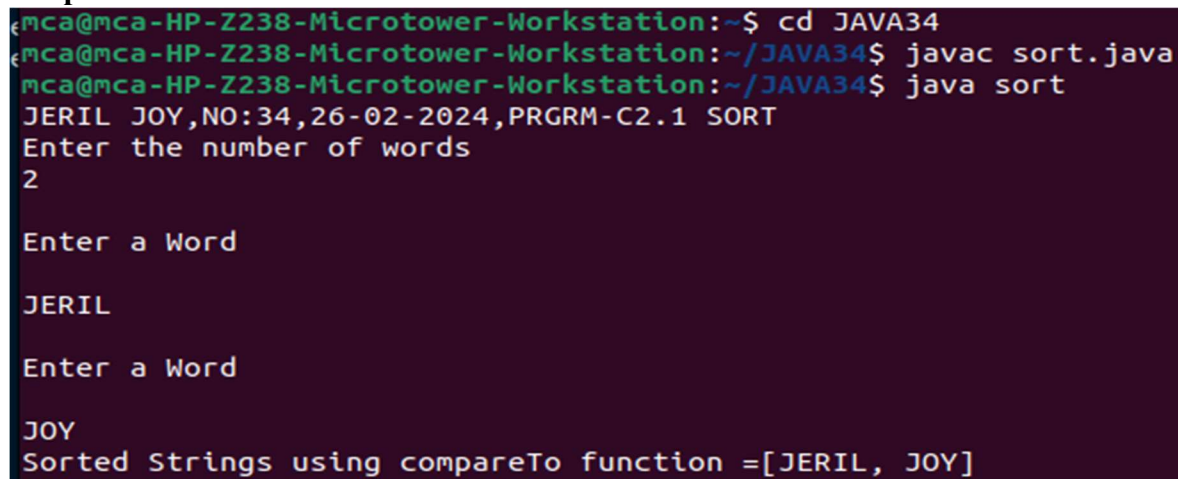


6. Program to Sort strings

Program:

```
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("JERIL JOY,NO:34,26-02-2024,PRGRM-C2.1 SORT");
        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:



```
mca@mca-HP-Z238-Microtower-Workstation:~$ cd JAVA34
mca@mca-HP-Z238-Microtower-Workstation:~/JAVA34$ javac sort.java
mca@mca-HP-Z238-Microtower-Workstation:~/JAVA34$ java sort
JERIL JOY,NO:34,26-02-2024,PRGRM-C2.1 SORT
Enter the number of words
2

Enter a Word

JERIL

Enter a Word

JOY
Sorted Strings using compareTo function =[JERIL, JOY]
```

7. Search an element in an array.**Program:**

```
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("JERIL JOY,NO:34,26-02-2024,PRGRM-C2.2 SEARCH");
        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@mca-HP-Z238-Microtower-Workstation:~/JAVA34$ javac Search.java
mca@mca-HP-Z238-Microtower-Workstation:~/JAVA34$ java Search
JERIL JOY,N0:34,26-02-2024,PRGRM-C2.2 SEARCH
Enter the number of elemets in array
2

Enter a Word

JERIL

Enter a Word

JOY
Enter the element to Search
JOY
Element found at position = 1
```

8. Perform string manipulations

Program:

```
import java.util.Scanner;
public class String_man{
    public static void main(String[] args) {
        System.out.println("JERIL JOY,NO:34,26-02-2024,PRGRM-C2.3 STRING
MANIPULATION");
        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:~/Merinjava$ javac Manipulation.java
mca@Z238-UL:~/Merinjava$ java Manipulation
Merin Babu
23MCA042
27-02-24

Enter a string:
merin babu
Length of the string: 10
Uppercase string: MERIN BABU
Lowercase string: merin babu
Enter a string to concatenate with:
kanneth
Concatenated string: merin babukanneth
Enter the starting index for substring:
5
Substring: babu
Enter the character to replace:
m
Enter the replacement character:
e
Replaced string: eerin babu
Enter the delimiter for splitting:
r
Split string:
me
in babu
```

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.

Program:

```
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("JERIL JOY,NO:34,26-02-2024,PRGRM-C2.4 EMPLOYEE");
        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@mca-HP-Z238-Microtower-Workstation:~/JAVA34$ javac employee.java
mca@mca-HP-Z238-Microtower-Workstation:~/JAVA34$ java employee
JERIL JOY,N0:34,26-02-2024,PRGRM-C2.4 EMPLOYEE

Enter the No. of Employees
2

Enter the Employee details
Employee number :
1
Name :
JERIL
Salary :
50000

Enter the Employee details
Employee number :
2
Name :
JOY
Salary :
55000

Informations of all the employee's
Empolyee No :1
Name :JERIL
Salary Amount50000.0

Empolyee No :2
Name :JOY
Salary Amount55000.0

Enter the Employee Number to get details of a employee
2

Employee details
Empolyee No :2
Name :JOY
Salary Amount55000.0
```