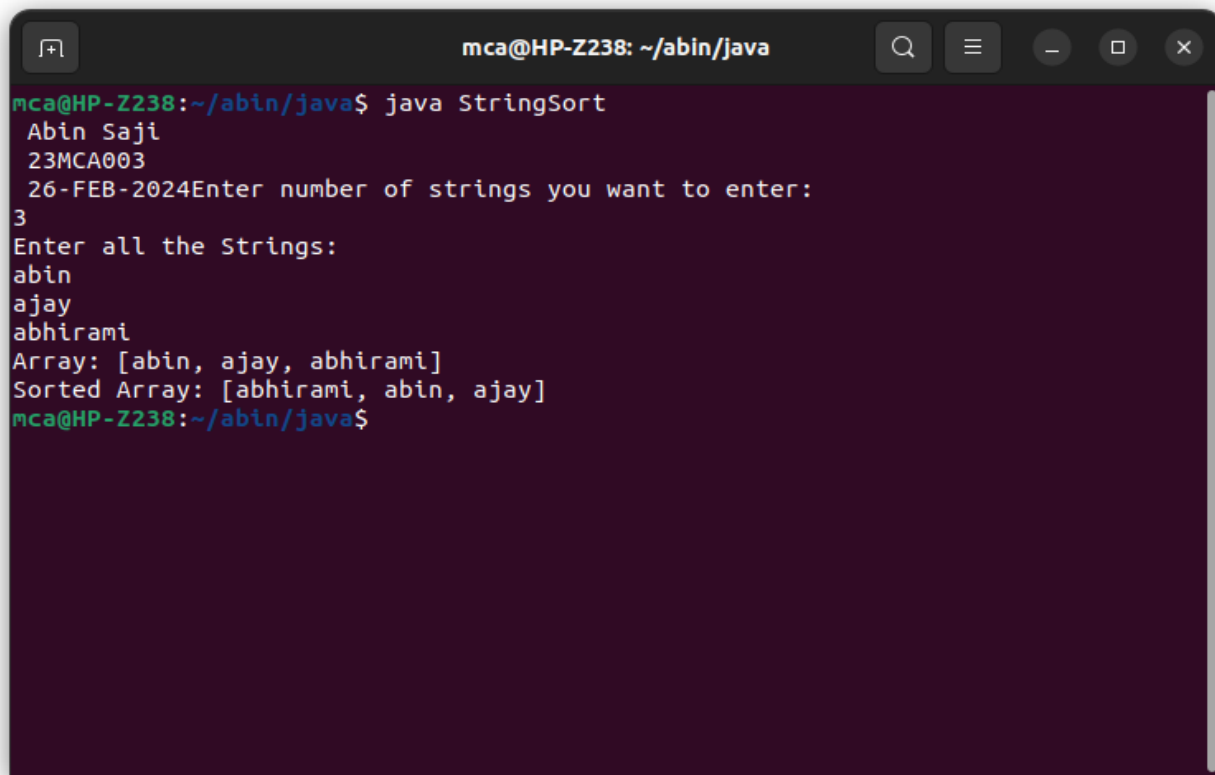## 6. Program to Sort strings

Program:

```java
import java.util.Scanner;
import java.util.Arrays;
public class StringSort
{
    public static void main(String[] args)
    {
        int n;
        String temp;
        Scanner s = new Scanner(System.in);
        System.out.print(" Abin Saji\n 23MCA003\n 26-FEB-2024\n"); System.out.print("Enter
        number of strings you want to enter:\n");
        n = s.nextInt();
        String strings[] = new String[n];
        Scanner s1 = new Scanner(System.in);
        System.out.println("Enter all the Strings:");
        for(int i = 0; i < n; i++)
        {
            strings[i] = s1.nextLine();
        }
        System.out.println("Array: " + Arrays.toString(strings));
Arrays.sort(strings);
System.out.println("Sorted Array: " + Arrays.toString(strings));
    }
}
```

Output:

```
mca@HP-Z238: ~/abin/java

mca@HP-Z238:~/abin/java$ java StringSort
 Abin Saji
 23MCA003
 26-FEB-2024Enter number of strings you want to enter:
3
Enter all the Strings:
abin
ajay
abhirami
Array: [abin, ajay, abhirami]
Sorted Array: [abhirami, abin, ajay]
mca@HP-Z238:~/abin/java$
```

7. Search an element in an array.

Program:

```java
import java.util.Scanner;
public class ArraySearch {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print(" Abin Saji \n 23MCA003\n 26-FEB-2024\n"); System.out.print("Enter the
        size of 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("Enter 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("Element " + searchElement + " found in the array.");
        } else {
            System.out.println("Element " + searchElement + " not found in the array.");
        }
        scanner.close();
    }
}
```

Output:

```
 Abin Saji
 23MCA003
 26-FEB-2024
Enter the size of the array: 2
Enter the elements of the array:
Enter element 1: 3
Enter element 2: 4
Enter the element to search: 5
Element 5 not found in the array.
```

8. Perform string manipulations

Program:

```java
import java.util.Scanner;
public class StringManip{
public static void main(String[] args) {
System.out.println("Abin Saji \n 23MCA003 \n 14-March-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());
}
}
```
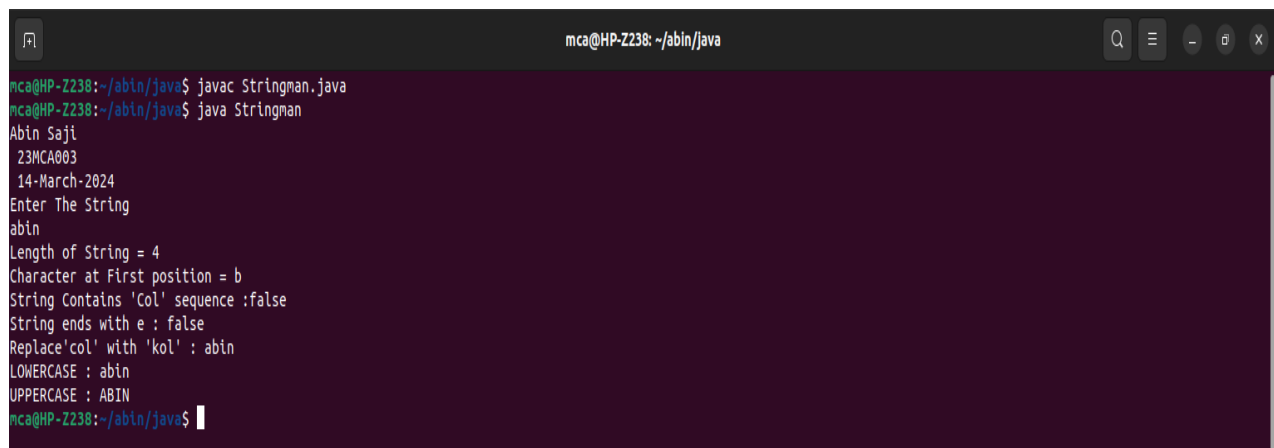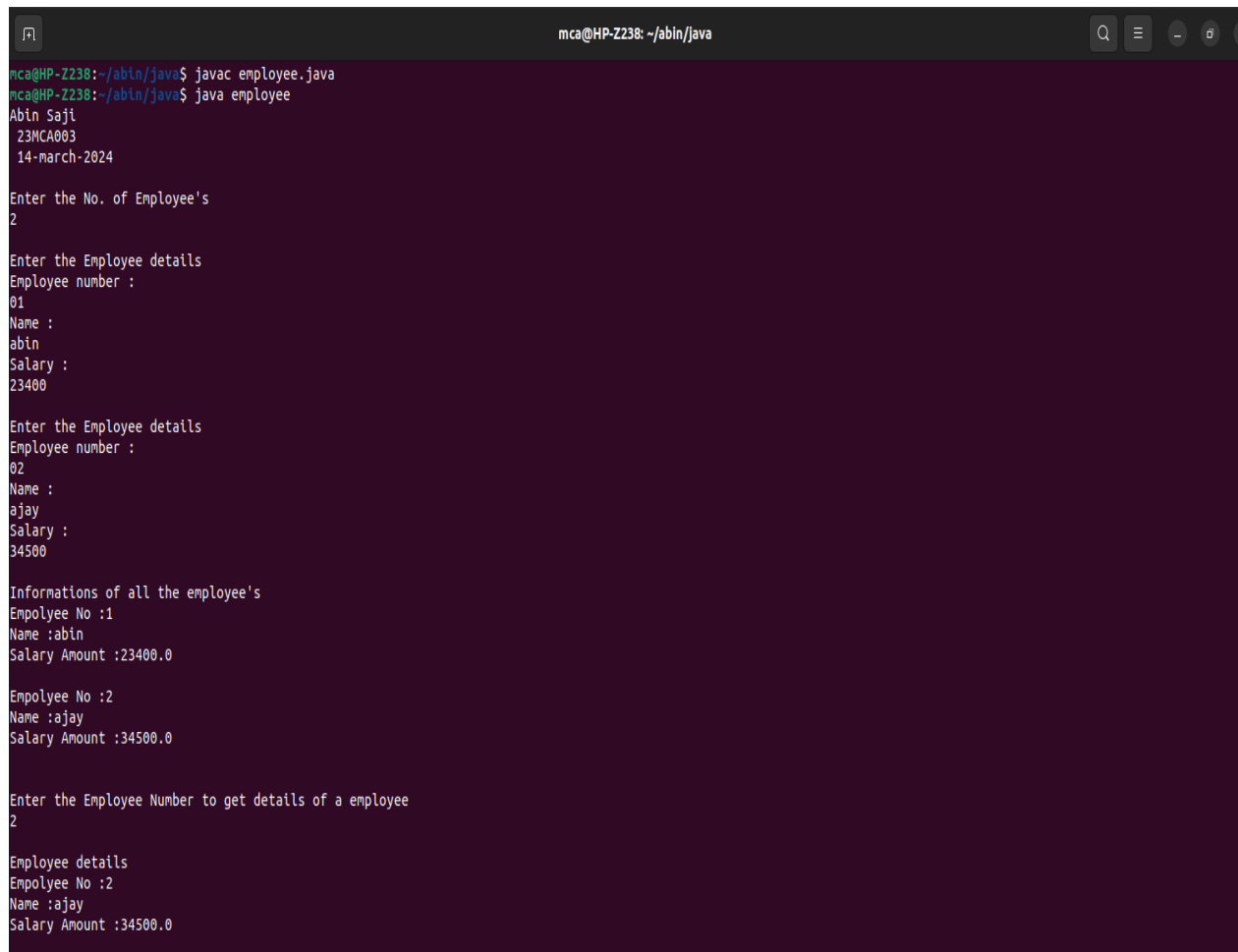
Output:

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:

```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("Abin Saji \n 23MCA003\n 14-March-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: