CODE AND OUTPUT

```
package SOMNATH SHAW 2241019426;
public class Address {
    Address(String Street, String City, String State, int PinCode) {
    public void setStreet(String Street) {
    public void setCity(String City) {
    public void setState(String State) {
       this.State = State;
    public void setPinCode(int PinCode) {
       this.PinCode = PinCode;
    public String getStreet() {
    public String getCity() {
    public String getState() {
    public int pincode() {
    public String getAddress() {
   return (Street + " , " + City + " , " + State + " , " + PinCode);
package SOMNATH SHAW 2241019426;
public class Date {
    int year;
   Date(int day , int month , int year) {
```

```
this.day = day;
  this.month = month;
  this.year = year;
}

//setter
public void setDay(int day) {
    this.day = day;
}
public void setMonth(int month) {
    this.month = month;
}
public void setYear(int year) {
    this.year = year;
}

//getter
public int getDay() {
    return day;
}
public int getMonth() {
    return month;
}
public int getYear() {
    return year;
}

public String getDate() {
    return (day + "-" + month + "-" + year);
}
```

```
package SOMNATH_SHAW_2241019426;

public class Employee {
   String name;
   int empId;
   double salary;
   Date hireDate;
   String jobPosition;
   String contactNumber;
   Address address;

Employee(String name, int empId, double salary, Date hireDate, String jobPosition, String contactNumber, Address address) {
      this.name = name;
      this.name = name;
      this.empId = empId;
      this.salary = salary;
      this.hireDate = hireDate;
      this.jobPosition = jobPosition;
      this.contactNumber = contactNumber;
      this.address = address;
   }

//setter
public void setName(String name) {
```

```
public void setEmpId(int empId) {
       this.empId = empId;
    public void setSalary(double salary) {
    public void setHireDate(Date hireDate) {
       this.hireDate = hireDate;
    public void setJobPosition(String jobPosition) {
       this.jobPosition = jobPosition;
    public void setContactNumber(String contactNumber) {
    public void setAddress(Address address) {
       this.address = address;
    public String getName() {
    public int getEmpid() {
    public double getSalary() {
    public String getHireDate() {
       return hireDate.getDate();
    public String getJobPosition() {
       return jobPosition;
    public String getContactNumber() {
    public String getAddress() {
       return address.getAddress();
    public String getEmployee() {
                         "\nEmployee Id : " + empId +
                         "\nHire Date : " + hireDate.getDate() +
                         "\nJob Position : " + jobPosition +
"\nContact Number : " + contactNumber +
                         "\nAddress : " + address.getAddress()
package SOMNATH SHAW 2241019426;
```

```
public class Test {
    public static Employee[] employeeDatabase(int n , Scanner sc) {
        Employee[] employeeDatabase = new Employee[n];
            System.out.println();
            System.out.println("EMPLOYEE " + (i+1) + " --> ");
            sc.nextLine();
            System.out.print("Enter Your Full Name : ");
            String name = sc.nextLine();
            System.out.print("Enter Employee Id : ");
            int empId = sc.nextInt();
            System.out.print("Enter Salary : ");
            System.out.print("Enter Hire Date : ");
            int day = sc.nextInt();
            int year = sc.nextInt();
            Date hireDate = new Date(day, month, year);
            System.out.print("Enter Job Position : ");
            String jobPosition = sc.next();
            System.out.print("Enter Contact Number : ");
            System.out.print("Enter Address (Street, City, State, PinCode)
            String Street = sc.next();
            String City = sc.next();
            int PinCode = sc.nextInt();
            Address = new Address (Street, City, State, PinCode);
            employeeDatabase[i] = new Employee(name, empId, salary,
hireDate, jobPosition, contactNumber, address);
        return employeeDatabase;
    public static void arrangeEmployeeBySalary(Employee[] e) {
                if (e[j].getSalary() < e[i].getSalary()) {</pre>
                    Employee temp = e[i];
```

```
e[j] = temp;
   public static void getEmployeesByJobPosition(Employee[] e, String jp) {
        for (Employee : e) {
            if (employee.getJobPosition().equals(jp)) {
                System.out.println("Employee Details --> ");
                System.out.println(employee.getEmployee());
   public static void getEmployeesByHireDate(Employee[] e, Date d1, Date
        for (Employee : e) {
            if (employee.getHireDate().compareTo(d1.getDate()) >= 0 &&
employee.getHireDate().compareTo(d2.getDate()) <= 0) {</pre>
                System.out.println("Employee Details --> ");
                System.out.println(employee.getEmployee());
   public static int foreignEmployeeCount(Employee[] e) {
        for (Employee : e) {
            if (!(employee.getContactNumber().startsWith("+91"))) {
   public static void getEmployeesBySalary(Employee[] e, double s1, double
        for (Employee : e) {
            if (employee.getSalary() >= s1 && employee.getSalary() <= s2) {</pre>
                System.out.println("Employee Details --> ");
                System.out.println(employee.getEmployee());
   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the Number of Employees: ");
        System.out.println();
        System.out.println("Employee Database --> ");
```

```
Employee[] e = employeeDatabase(n , sc);
        System.out.println();
       System.out.println("Sorting the Employee Database According to
       arrangeEmployeeBySalary(e);
       System.out.println();
       System.out.println("For Displaying the Detail of Employee (of the
       System.out.print("Enter Job Position : ");
       getEmployeesByJobPosition(e, jp);
       System.out.println();
       System.out.println("For Displaying the Detail of the Employee
       System.out.print("Enter Starting Hire Date : ");
       System.out.print("Enter Ending Hire Date : ");
       getEmployeesByHireDate(e, date1, date2);
       System.out.println();
       System.out.println("Display the Foreign Employees --> ");
       System.out.println("The Number of Foreign Employees are : " +
foreignEmployeeCount(e));
       System.out.println();
       System.out.println("Displaying the Employee Detail between the
range of the following Salary --> ");
       System.out.print("Enter the salary value of S1 : ");
       double s1 = sc.nextDouble();
       System.out.print("Enter the salary value of s2 : ");
       double s2 = sc.nextDouble();
       getEmployeesBySalary(e, s1, s2);
OUTPUT →
```

```
Job Position: sde
Contact Number: +345695834576
Address: dimna, jsr, jharkhand, 743354
Employee Details -->
Name: Sunirmal Shaw
Employee Id: 9427
Salary: 86443.0
Hire Date: 4-5-2036
Job Position: sde
Contact Number: +8453745653
Address: kdiga, bgora, jhardhand, 745733
```