***Faculty Sign***

**The Employee database management code is included in the Project. There are four Java files in the Package PROJECT: Address.java, Date.java, Employee.java, and Test.java. The main function can be found here only in the Test.java file.**

**Address.java record :**

**The Address class can be found in this java file, which also includes a constructor to initialize the three instance variables (street, city, and zip code). Setter Techniques for each of**

**the example factors .**

**Date.java document :**

**The Date class with three instance variables—day, month, and year—and a constructor to initialize the instance variables are contained in this Java file. For each of the instance variables, there are setter methods.**

**File Employee.java:**

**This java document contains the Representative class with seven occasion factors for example name , empId , pay , hireDate ,**

**jobPosition , contactNumber and address . The address datatype is "Address," which refers to the Address class, and the hireDate datatype is "Date," which refers to the Date class. Setter Techniques for each**

**of the example factors. toString() is a getter method that returns all employee details in a String datatype.**

**Test.java document :**

**The accompanying java document contains the primary capability . First the program will create 500 Representative data set utilizing the cluster employees[] which contains all subtleties of worker.**

**arrange Employees based on Salary:**

**The Employee Database will be sorted by salary in decreasing order using this method. It prints the message "Sorting is Done" after sorting. The object is traded in order of decreasing salary in the Method.**

**getEmployeesByJobPosition(employees, "Administrator") :**

**This method shows the employee's details for the given job position, such as manager. Using the string method.equal(jp), the method compares the job position (jp) to each employee's job position. The Employee Detail is returned if the job position is identical.**

**getEmployeesByHireDate(employees, startDate, endDate) :**

**This Strategy is for Showing the Detail of the Worker between the startDate and endDate . The dates of start and end are objects. The method displays the employee's detail after comparing the dates between startDate and endDate.**

**foreignEmployeeCount(employees) :**

**The number of foreign employees in the database is counted using this method. The method checks to see if the contact number begins with "+91," and if not, the variable c is incremented and returned.**

**get Employees by Salary (employees, minimum, maximum):**

**Between the input salary and the employee's details, this method is used. minSalary and maxSalary**

**is inputted by the client . The technique really takes a look at in the middle between minSalary to maxSalary and shows the**

**Representative Detail .**

**-----------------------------------OUTPUT-----------------------------------**

**In order to provide a sample, I have created a database of ten employees here.**

**An employee database of a company having 500 employees:**

**employeeDatebase[0] = new Employee("USER11", 2001, 1000, new Date(10, 5 ,2023), "manager", "+91123456", new Address("jagamara", “Bhubaneswar", "Odisha", 751019));**

**employeeDatebase[1] = new Employee("j USER12", 2002, 2000, new Date(11, 5, 2023), "Software\_Developer", "+91987456", new Address("jagamara", “Bhubaneswar", "Odisha", 751019));**

**employeeDatebase[2] = new Employee("USER13", 2003, 3000, new Date(13, 5, 2023), "Graphic\_Designer", "+85258963", new Address("Sidestreet", “New orleans", "Louisiana", 751019));**

**employeeDatebase[3] = new Employee("USER14", 2004, 804000, new Date(14, 5, 2023), "manager", "+652789654", new Address("Sidestreet", “New orleans", "Louisiana", 751019));**

**employeeDatebase[4] = new Employee("USER15", 2005, 5000, new Date(15, 5, 2023), "Software\_Developer", "+91789654", new Address("jagamara", “Bhubaneswar", "Odisha", 751019));**

**employeeDatebase[5] = new Employee("USER16", 2006, 6000, new Date(16, 5, 2023), "manager", "+85941256", new Address("Sidestreet", “New orleans", "Louisiana", 751019));**

**employeeDatebase[6] = new Employee("USER17", 2007, 7000, new Date(17, 5, 2023), "Data\_Scientist", "+78951236", new Address("Sidestreet", “New orleans", "Louisiana", 751019));**

**employeeDatebase[7] = new Employee("USER18", 2008, 8000, new Date(18, 5, 2023), "Software\_Developer", "+32456987", new Address("Sidestreet", “New orleans", "Louisiana", 751019));**

**employeeDatebase[8] = new Employee("USER19", 2009, 9000, new Date(19, 5, 2023), "manager", "+91852456", new Address("jagamara", " Bhubaneswar", "Odisha", 751019));**

**employeeDatebase[9] = new Employee("USER20", 2010, 10000, new Date(20, 5, 2023), "Cyber\_Security", "+91456852", new Address("jagamara", "Bhubaneswar", "Odisha", 751019));**

**employee details in descending order by salary:**

**Name : USER14**

**Employee Id : 2004**

**Salary : 804000.0**

**Hire Date : 14-5-2023**

**Job Position : manager**

**Contact Number : +652789654**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER20**

**Employee Id : 2010**

**Salary : 10000**

**Hire Date : 20-5- 2023**

**Job Position : Cyber\_Security**

**Contact Number : +91456852**

**Address : jagamara, Bhubaneswar, Odisha, 751019**

**Name : USER19**

**Employee Id : 2009**

**Salary : 9000**

**Hire Date : 19-5-2023**

**Job Position : manager**

**Contact Number : +91852456**

**Address : jagamara, Bhubaneswar, Odisha, 751019**

**Name : USER18**

**Employee Id : 2008**

**Salary : 8000**

**Hire Date : 18-5-2023**

**Job Position : Software\_Developer**

**Contact Number : "+32456987**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER17**

**Employee Id : 2007**

**Salary : 7000**

**Hire Date : 17-5-2023**

**Job Position : Data\_Scientist**

**Contact Number : +78951236**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER16**

**Employee Id : 2006**

**Salary : 6000**

**Hire Date : 16-5-2023**

**Job Position : manager**

**Contact Number : +85941256**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER15**

**Employee Id : 2005**

**Salary : 5000**

**Hire Date : 15-5-2023**

**Job Position : Software\_Developer**

**Contact Number : +91789654**

**Address : jagamara, Bhubaneswar, Odisha, 751019**

**Name : USER13**

**Employee Id : 2003**

**Salary : 3000**

**Hire Date : 13-5-2023**

**Job Position : Graphic\_Designer**

**Contact Number : +85258963**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER12**

**Employee Id : 2002**

**Salary : 2000**

**Hire Date : 12-5-2023**

**Job Position : Software\_Developer**

**Contact Number : +91987456**

**Address : jagamara, Bhubaneswar, Odisha, 751019**

**Name : USER11**

**Employee Id : 2001**

**Salary : 1000**

**Hire Date : 11-5-2023**

**Job Position : manager**

**Contact Number : +91123456**

**Address : jagamara, Bhubaneswar, Odisha, 751019**

**Enter Job Position : manager**

**Name : USER14**

**Employee Id : 2004**

**Salary : 804000.0**

**Hire Date : 14-5-2023**

**Job Position : manager**

**Contact Number : +652789654**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER19**

**Employee Id : 2009**

**Salary : 9000.0**

**Hire Date : 19-5-2023**

**Job Position : manager**

**Contact Number : +91852456**

**Address : jagamara , Bhubaneswar , Odisha , 751089**

**Name : USER16**

**Employee Id : 2006**

**Salary : 6000.0**

**Hire Date : 16-5-2023**

**Job Position : manager**

**Contact Number : +85941256**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER11**

**Employee Id : 2001**

**Salary : 1000.0**

**Hire Date : 10-5-2023**

**Job Position : manager**

**Contact Number : +91123456**

**Address : jagamara , Bhubaneswar , Odisha , 751089**

**For Displaying the Detail of the Employee Between the Following Dates :**

**Enter starting Hire Date : 13 5 2023**

**Enter Ending Hire Date : 18 5 2023**

**Name : USER14**

**Employee Id : 2004**

**Salary : 804000.0**

**Hire Date : 14-5-2023**

**Job Position : manager**

**Contact Number : +652789654**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER18**

**Employee Id : 2008**

**Salary : 8000.0**

**Hire Date : 18-5-2023**

**Job Position : Software\_Developer**

**Contact Number : +32456987**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER17**

**Employee Id : 2007**

**Salary : 7000.0**

**Hire Date : 17-5-2023**

**Job Position : Data\_Scientist**

**Contact Number : +78951236**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER16**

**Employee Id : 2006**

**Salary : 6000.0**

**Hire Date : 16-5-2023**

**Job Position : manager**

**Contact Number : +85941256**

**Address Sidestreet, New orleans, Louisiana, 751019**

**Name : USER15**

**Employee Id : 2005**

**Salary : 5000.0**

**Hire Date : 15-5-2023**

**Job Position : Software\_Developer**

**Contact Number : +91789654**

**Address : jagamara , Bhubaneswar , Odisha , 751089**

**Name : USER13**

**Employee Id : 2003**

**Salary : 3000.0**

**Hire Date : 13-5-2023**

**Job Position : Graphic\_Designer**

**Contact Number : +85258963**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Display the Foreign Employees :**

**The Number of Foreign Employees are : 5**

**Displaying the Employee Detail between the range of the following Salary :**

**Enter the salary value of S1 : 3000**

**Enter the salary value of s2 : 7000**

**Name : USER17**

**Employee Id : 2007**

**Salary : 7000.0**

**Hire Date : 17-5-2023**

**Job Position : Data\_Scientist**

**Contact Number : +78951236**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER16**

**Employee Id : 2006**

**Salary : 6000.0**

**Hire Date : 16-5-2023**

**Job Position : manager**

**Contact Number : +85941256**

**Address : Sidestreet, New orleans, Louisiana, 751019**

**Name : USER15**

**Employee Id : 2005**

**Salary : 5000.0**

**Hire Date : 15-5-2023**

**Job Position : Software\_Developer**

**Contact Number : +91789654**

**Address : jagamara , Bhubaneswar , Odisha , 751089**

**Name : USER13**

**Employee Id : 2003**

**Salary : 3000.0**

**Hire Date : 13-5-2023**

**Job Position : Graphic\_Designer**

**Contact Number : +85258963**

**Address : Sidestreet, New orleans, Louisiana, 751019**