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| Description. | <p>The Project contain code for managing the Employee database . The Package PROJECT contain four java file (Address.java , Date.java , Employee.java , Test.java) . Here the only Test.java file contains the main function .</p> <p><u>Address.java file :</u> This java file contains the Address class with four instance variables i.e. street , city , state and pin code with the constructor for the initialize the instance variables . Setter Methods and Getter Methods for each of the instance variables . At last a addition getter method for getting the full address all together in String .</p> <p><u>Date.java file :</u> This java file contains the Date class with three instance variables i.e. day , month and year with the constructor for the initialize the instance variable . Setter Methods and Getter Methods for each of the instance variables . At last a addition getter method for getting the Date in String which include day , month and year (DD-MM-YYYY) .</p> <p><u>Employee.java file :</u> This java file contains the Employee class with seven instance variables i.e. name , empld , salary , hireDate , jobPositoin , contactNumber and address . The hireDate datatype is "Date" which refers to the Date class and address datatype is "Address" which refers to the Address class . Setter Methods and Getter Methods for each of the instance variables. An additional getter method which returns the Employee's all Detail in String datatype .</p> <p><u>Test.java file :</u> The following java file contains the main function . First the program asks the User to "Enter the Number of Employee : " , accordingly it creates the Employee database using the array employeeedatabse[] , in which a method is called "employeeedatabse(n ,sc) for input of required detail of the Employee . After the completion of the data entry of the Employee the interpreter return to main function .</p> <p>arrangeEmployeeBySalary(e); This Method is called for sorting the Employee Database with respect to salary in decreasing order . After sorting it prints a message "Sorting is Done" . The Method swaps the object in decreasing order according to the salary .</p> <p>getEmployeeByJobPosition(e , jp); This Method display the Detail of the Employee of the given Job Position . The method compare the job position (jp) to the every Employee's job position with the help of string method .equal(jp) . if the job position is equal then it return the Employee Detail.</p> <p>getEmployeeByHireDate(e ,Date1 ,Date2); This Method for Displaying the Detail of the Employee between the input Date . The Date1 and Date2 are object . The method compares the Dates in between Date1 to Date2 and Displays the Employee Detail .</p> |

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| | <p>foreignEmployeeCount(e); This Method counts the number of foreign Employee in Database . The method Checks the contact Number if it startswith "+91" and if it does not start , the variable c is incremented and returned .</p> <p>getEmployeeBySalary(e ,s1 ,s2); This Method is used to display the Employee detail between the input salary . s1 and s2 is inputted by the user . The method checks salary in between s1 to s2 and displays the Employee Detail .</p> |
| Output. | <p>Enter the Number of Employees : 10</p> <p>----> Employee Database Creation Started : v</p> <pre> employeeDatebase[0] = new Employee("java user_1", 2001, 1000, new Date(10, 5 ,2023), "manager", "+91123456", new Address("jagamara", "Bhubaneswar", "Odisha", 751089)); employeeDatebase[1] = new Employee("java user_2", 2002, 2000, new Date(11, 5, 2023), "Software_Developer", "+91987456", new Address("jagamara", "Bhubaneswar", "Odisha", 751089)); employeeDatebase[2] = new Employee("java user_3", 2003, 3000, new Date(13, 5, 2023), "Graphic_Designer", "+85258963", new Address("jagamara", "Bhubaneswar", "Odisha", 751089)); employeeDatebase[3] = new Employee("java user_4", 2004, 804000, new Date(14, 5, 2023), "manager", "+652789654", new Address("jagamara", "Bhubaneswar", "Odisha", 751089)); employeeDatebase[4] = new Employee("java user_5", 2005, 5000, new Date(15, 5, 2023), "Software_Developer", "+91789654", new Address("jagamara", "Bhubaneswar", "Odisha", 751089)); employeeDatebase[5] = new Employee("java user_6", 2006, 6000, new Date(16, 5, 2023), "manager", "+85941256", new Address("jagamara", "Bhubaneswar", "Odisha", 751089)); employeeDatebase[6] = new Employee("java user_7", 2007, 7000, new Date(17, 5, 2023), "Data_Scientist", "+78951236", new Address("jagamara", "Bhubaneswar", "Odisha", 751089)); employeeDatebase[7] = new Employee("java user_8", 2008, 8000, new Date(18, 5, 2023), "Software_Developer", "+32456987", new Address("jagamara", "Bhubaneswar", "Odisha", 751089)); </pre> |

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employeeDatabase[8] = new Employee("java user_9", 2009, 9000, new
Date(19, 5, 2023), "manager", "+91852456", new Address("jagamara",
"Bhubaneswar", "Odisha", 751089));

employeeDatabase[9] = new Employee("java user_10", 2010, 10000, new
Date(20, 5, 2023), "Cyber_Security", "+91456852", new
Address("jagamara", "Bhubaneswar", "Odisha", 751089));
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v

----> Sorting the Employee Database According to Salary in Decreasing Order :

----> Sorting is Done <----

----> For Displaying the Detail of Employee (of the Entered Job Position) :

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v

Enter Job Position : manager

-----> Employee Detail <----- :

Name : java user_4

Employee Id : 2004

Salary : 804000.0

Hire Date : 14-5-2023

Job Position : manager

Contact Number : +652789654

Address : jagamara , Bhubaneswar , Odisha , 751089

-----> Employee Detail <----- :

Name : java user_9

Employee Id : 2009

Salary : 9000.0

Hire Date : 19-5-2023

Job Position : manager

Contact Number : +91852456

Address : jagamara , Bhubaneswar , Odisha , 751089

-----> Employee Detail <----- :

Name : java user_6

Employee Id : 2006

Salary : 6000.0

Hire Date : 16-5-2023

Job Position : manager

Contact Number : +85941256

Address : jagamara , Bhubaneswar , Odisha , 751089

-----> Employee Detail <----- :

Name : java user_1

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 :

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Enter starting Hire Date : 13 5 2023

Enter Ending Hire Date : 18 5 2023

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v

-----> Employee Detail <----- :

Name : java user_4

Employee Id : 2004

Salary : 804000.0

Hire Date : 14-5-2023

Job Position : manager

Contact Number : +652789654

Address : jagamara , Bhubaneswar , Odisha , 751089

-----> Employee Detail <----- :

Name : java user_8

Employee Id : 2008

Salary : 8000.0

Hire Date : 18-5-2023

Job Position : Software_Developer

Contact Number : +32456987

Address : jagamara , Bhubaneswar , Odisha , 751089

-----> Employee Detail <----- :

Name : java user_7

Employee Id : 2007

Salary : 7000.0

Hire Date : 17-5-2023

Job Position : Data_Scientist

Contact Number : +78951236

Address : jagamara , Bhubaneswar , Odisha , 751089

-----> Employee Detail <----- :

Name : java user_6

Employee Id : 2006

Salary : 6000.0

Hire Date : 16-5-2023

Job Position : manager

Contact Number : +85941256

Address : jagamara , Bhubaneswar , Odisha , 751089

-----> Employee Detail <----- :

Name : java user_5

Employee Id : 2005

Salary : 5000.0

Hire Date : 15-5-2023

Job Position : Software_Developer
Contact Number : +91789654
Address : jagamara , Bhubaneswar , Odisha , 751089
-----> Employee Detail <----- :
Name : java user_3
Employee Id : 2003
Salary : 3000.0
Hire Date : 13-5-2023
Job Position : Graphic_Designer
Contact Number : +85258963
Address : jagamara , Bhubaneswar , Odisha , 751089

----> Display the Foreign Employees :
The Number of Foreign Employees are : 5

----> Displaying the Employee Detail between the range of the following Salary :
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Enter the salary value of S1 : 3000
Enter the salary value of s2 : 7000
-----> Employee Detail <----- :
Name : java user_7
Employee Id : 2007
Salary : 7000.0
Hire Date : 17-5-2023
Job Position : Data_Scientist
Contact Number : +78951236
Address : jagamara , Bhubaneswar , Odisha , 751089
-----> Employee Detail <----- :
Name : java user_6
Employee Id : 2006
Salary : 6000.0
Hire Date : 16-5-2023
Job Position : manager
Contact Number : +85941256
Address : jagamara , Bhubaneswar , Odisha , 751089
-----> Employee Detail <----- :
Name : java user_5
Employee Id : 2005
Salary : 5000.0
Hire Date : 15-5-2023
Job Position : Software_Developer
Contact Number : +91789654
Address : jagamara , Bhubaneswar , Odisha , 751089
-----> Employee Detail <----- :
Name : java user_3
Employee Id : 2003
Salary : 3000.0

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| | <p>Hire Date : 13-5-2023</p> <p>Job Position : Graphic_Designer</p> <p>Contact Number : +85258963</p> <p>Address : jagamara , Bhubaneswar , Odisha , 751089</p> |
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