**COLLECTIONS**

1.Write a program in java to maintain employee detail using ArrayList?

Add minimum 5 employee details

Display it in proper order

Display the name to employee having highest salary

Display the details in the order of salary

**Program:**

**Emp.java;**

package collection;

import java.util.\*;

public class Emp implements Comparable<Emp>

{

private ArrayList<Emp> list;

int id,age,salary;

String name;

Emp(int id,String name,int age,int salary){

this.id = id;

this.name = name;

this.salary = salary;

this.age = age;

}

public int getID(){

return this.id;

}

public int getSalary(){

return salary;

}

public String getName(){

return name;

}

@Override

public int compareTo(Emp e){

if(id == e.id){

return 0;}

else if(id > e.id)

return 1;

else

return -1;

}

}

**EmpComp.java;**

package collection;

import java.util.\*;

public class EmpComp implements Comparator<Emp> {

@Override

public int compare(Emp o1, Emp o2) {

int sal1=((Emp)o1).getSalary();

int sal2=((Emp)o2).getSalary();

if(sal1==sal2)

return 0;

else if(sal1<sal2)

return 1;

else

return -1;

}

}

**Emptest . java;**

package collection;

import java.util.\*;

import java.io.\*;

public class Emp\_test {

public static void main(String args[]){

String name = null;

int salary = 0,id=0;

ArrayList<Emp> list = new ArrayList();

Emp e1=new Emp(102,"bhu",23,25000);

Emp e2=new Emp(105,"achu",20,50000);

Emp e3=new Emp(101,"abi",26,28000);

Emp e4=new Emp(103,"bhu",23,75000);

Emp e5=new Emp(104,"uthra",23,35000);

list.add(e1);

list.add(e2);

list.add(e3);

list.add(e4);

list.add(e5); System.out.println("employee list based on insertion order");

for(Emp e : list){

System.out.println("ID: "+e.id+"\t name "+e.name+"\t age "+e.age+"\t salary "+e.salary);

}

System.out.println(" ....................... "+"\n employee list based on proper order");

Collections.sort(list);

for(Emp e : list){

System.out.println("ID: "+e.id+"\t name "+e.name+"\t age "+e.age+"\t salary "+e.salary);

}

System.out.println(" ....................... "+"\n employee list based on Salary:");

Collections.sort(list,new EmpComp());

for(Emp e:list){

System.out.println("ID: "+e.id+"\t name "+e.name+"\t age "+e.age+"\t salary "+e.salary);

}

Emp s = list.get(0);

System.out.println("highest salary is: " + s.salary +" and holder name is " + s.name);

}

}

**Output:**

run:

employee list based on insertion order

ID: 102 name bhu age 23 salary 25000

ID: 105 name achu age 20 salary 50000

ID: 101 name abi age 26 salary 28000

ID: 103 name bhu age 23 salary 75000

ID: 104 name uthra age 23 salary 35000

.......................

employee list based on proper order

ID: 101 name abi age 26 salary 28000

ID: 102 name bhu age 23 salary 25000

ID: 103 name bhu age 23 salary 75000

ID: 104 name uthra age 23 salary 35000

ID: 105 name achu age 20 salary 50000

.......................

employee list based on Salary:

ID: 103 name bhu age 23 salary 75000

ID: 105 name achu age 20 salary 50000

ID: 104 name uthra age 23 salary 35000

ID: 101 name abi age 26 salary 28000

ID: 102 name bhu age 23 salary 25000

highest salary is: 75000 and holder name is bhu

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