**Java-8 – Employee management application using predicate part\_01, 02 & 03**

* **Program:**

class Employee{

String name;

String designation;

double salary;

String city;

Employee(String name, String designation, double salary, String city){

this.name = name;

this.designation = designation;

this.salary = salary;

this.city = city;

}

public toString(){

String s = String.format(“(%s,%s,%.2f,%s)”, name, designation, salary, city);

return s;

}

}

class EmployeeDemo{

public static void main(String[] args){

ArrayList<Employee> list = new ArrayList<>();

populate(list);

Predicate<Employee> p1 = emp -> emp.designation.equals(“Manager”);

System.out.println(“Managers Information:”);

display(p1, list);

Predicate<Employee> p2 = emp -> emp.city.equals(“Bangalore”);

System.out.println(“Bangalore employees information:”);

display(p2, list);

Predicate<Employee> p3 = emp -> emp.salary < 20000;

System.out.println(“All employees information whose salary < 20000:”);

display(p3, list);

System.out.println(“All managers from Bangalore to give pink slip:”);

display(p1.and(p2), list);

System.out.println(“All employees who are managers or salary < 20000:”);

display(p1.or(p3), list);

System.out.println(“All employees who are not managers:”);

display(p1.negate(), list);

}

public static void populate(ArrayList<Employee> list){

list.add(new Employee(“Saravana”,”CEO”, 30000, “Bangalore”));

list.add(new Employee(“Sunny”,”Manager”, 20000, “Hyderabad”));

list.add(new Employee(“Mallika”,”Manager”, 20000, “Bangalore”));

list.add(new Employee(“Kareena”,”Lead”, 15000, “Hyderabad”));

list.add(new Employee(“Katrina”,”Lead”, 15000, “Bangalore”));

list.add(new Employee(“Anushka”,”Developer”, 10000, “Hyderabad”));

list.add(new Employee(“Kanushka”,”Developer”, 10000, “Hyderabad”));

list.add(new Employee(“Sowmya”,”Developer”, 10000, “Bangalore”));

list.add(new Employee(“Ramya”,”Developer”, 10000, “Bangalore”));

}

public static void display(Predicate<Employee> p, List<Employee> list){

for(Employee e: list){

if(p.test(e)){

System.out.println(e);

}

}

System.out.println(“\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*”);

}

}

**Note: This document contains the information of all the following videos (35, 36 & 37).**