**Java-8 – Program to display student info using Predicate, Function & Consumer**

* **Program:**

class Student{

String name;

int marks;

Student(String name, int marks){

this.name = name;

this.marks = marks;

}

}

import java.util.List;

import java.util.ArrayList;

import java.util.function.Predicate;

import java.util.function.Function;

import java.util.function.Consumer;

class Test{

public static void main(String[] args){

List<Student> l = new ArrayList<>();

populate();

Predicate<Student> p = s -> s.marks >= 60;

Function<Student, String> f = s -> {

int marks = s.marks;

if(marks >= 80){

return “A[Distinction]”;

} else if(marks >= 60) {

return “B[First class]”;

} else if(marks >= 50){

return “C[Second class]”;

} else if(marks >= 35){

return “D[Third class]”;

} else {

return “E[Failed]”;

}

};

Consumer<Student> c = s -> {

System.out.println(“Student Name:”+s.name);

System.out.println(“Student Marks:”+s.marks);

System.out.println(“Student Grade:”+f.apply(s));

System.out.println();

};

for(Studen s: l){

if(p.test(s){

c.accept(s);

}

}

}

public static void populate(List<Student> l){

l.add(new Student(“Rithika”, 100);

l.add(new Student(“Gokul”, 65);

l.add(new Student(“Devi”, 55);

l.add(new Student(“Deva”, 45);

l.add(new Student(“Saranya”, 25);

}

}