**Java-8 – Program to find student grade by function**

* **Program:**

class Student{

String name;

int marks;

Student(String name, int marks){

this.name = name;

this.marks = marks;

}

}

import java.util.function.Function;

import java.util.List;

import java.util.ArrayList;

class Test{

public static void main(String[] args){

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

populate(list);

Function<Student, String> function = 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]”;

}

};

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

for(Student s: l){

if(p.test(s){

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

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

System.out.println(“Student grade:”+function.apply(s));

System.out.println();

}

}

}

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

l.add(new Student(“Sunny”, 100));

l.add(new Student(“Bunny”, 65));

l.add(new Student(“Chinny”, 55));

l.add(new Student(“Vinny”, 45));

l.add(new Student(“Pinny”, 25));

}

}