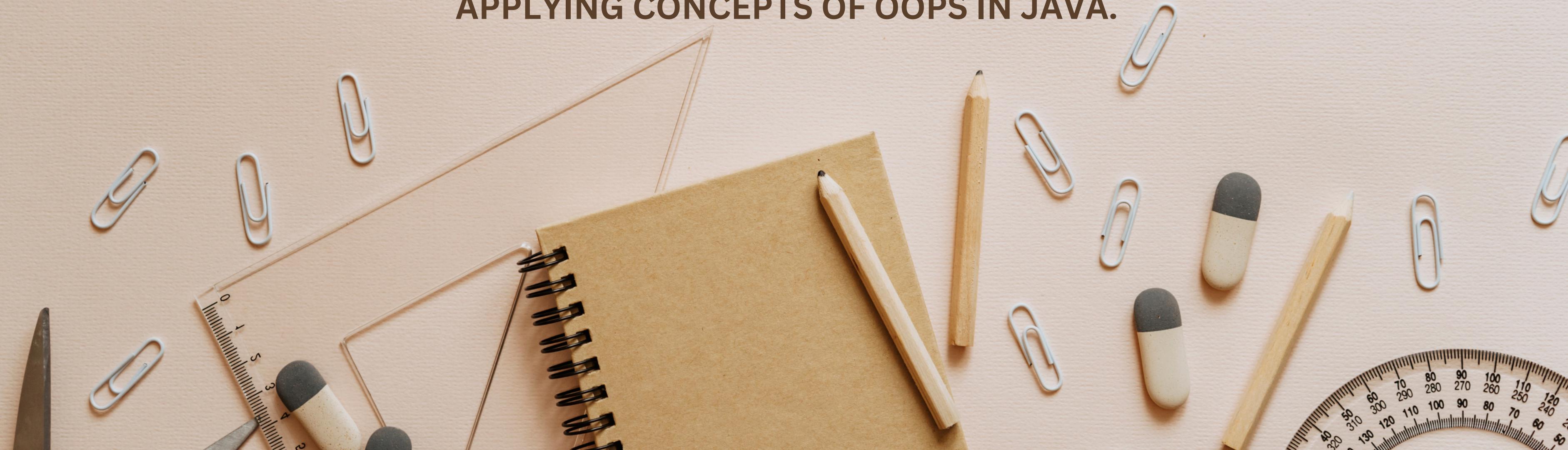


# ACADEMIC REPORT

PROBLEM - TO MAKE A COMPILED REPORT CARD OF ALL THE SUBJECTS  
APPLYING CONCEPTS OF OOPS IN JAVA.





# BRIEF INTRODUCTION OF OUR PROJECT

Basically we have created a user friendly project for teachers in which they can enter student's data like name, roll number, marks in various assignments, quizzes , lab, mid-semester&end-semester examinations and generate result. We have created different classes to find best of three quizzes and averages of lab as well as assignments scores to make the process easier.



# HOW THE PROJECT WORKS?

## Result Class extending Student Class

Student class has objects like name,rollno,gender,branch semester,etc which are inherited by result class.

The primary method of result class is display and it uses gradetype function to calculate grade by argumenting scores of each subject.

WE ARE INPUTTING NUMBER OF STUDENTS FROM THE USER AND APPLYING THE FOR LOOP ACCORDINGLY

Exam class extending assignment class and implementing quiz and lab class

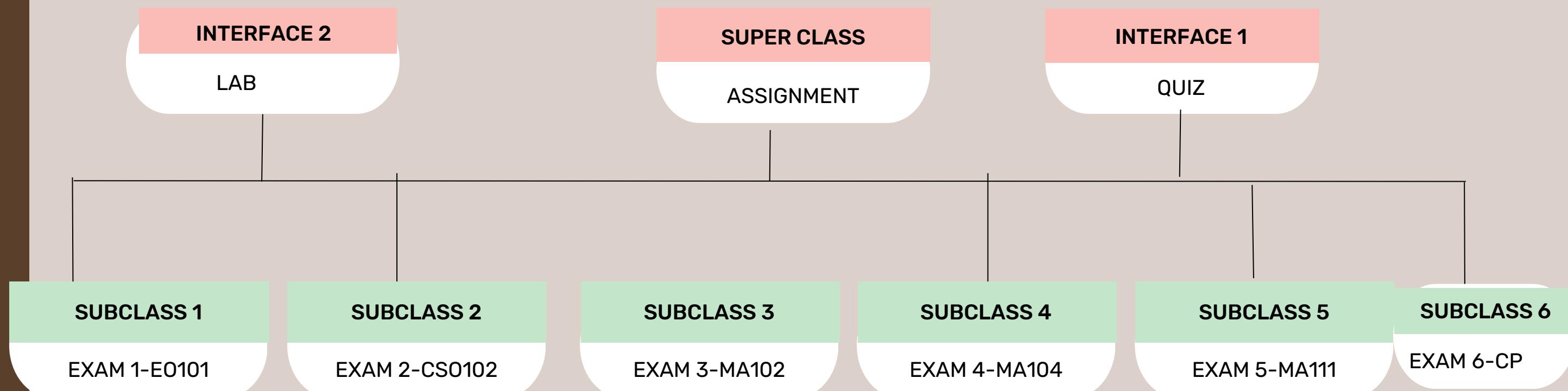
Each subject has an exam class. The superclass and interfaces are same for each but the method-definition changes with each subject according to one's own requirement.  
It's main objective is to calculate scores of each subject on the scale of 100

WE HAVE NESTED FOR LOOP TO CALCULATE SCORES OF 6 SUBJECTS AND THE WE DISPLAY THE ACDEMIC REPORT CARD FOR EACH STUDENT





# STRUCTURE OF REPORT



## Different methods and objects displayed in student class

STUDENT CLASS

```
package MA104_assignment;
import java.util.*;

abstract public class student{
    String Name;
    int Roll_No;
    String DOB;
    String Branch="Mathematics and Computing";
    int Semester;
    String sex;
    String w;
    student(String Name,int Roll_No,String DOB,int Semester,String sex){
        this.Name=Name;
        this.Roll_No=Roll_No;
        this.DOB=DOB;
        this.Semester=Semester;
        this.sex=sex;
    }
    String scholarship() {
        Scanner sc=new Scanner(System.in);
        System.out.println("Have you been granted scholarship?");
        System.out.println("Enter Y for yes and N for no");
        String x=sc.next();
        return x;
    }
    abstract String caste(String w);
}
```

RESULT CLASS

Different methods and objects displayed in RESULT class  
(in next slide)

# RESULT CLASS

```
age MA104_assignment;
rt java.util.*;
s result extends student{
char g1;
char g2;
char g3;
char g4;
char g5;
char g6;
nt s1;
nt s2;
nt s3;
nt s4;
nt s5;
nt s6;
String Name;
Int Roll_No;
String DOB;
Int Semester;
String sex;
String w;
result(String Name,int Roll_No,String DOB,int Semester, String sex,int s1,int s2,int s3,int s4,int s5,int s6){
super(Name,Roll_No,DOB,Semester,sex);
this.s1=s1;
this.s2=s2;
this.s3=s3;
this.s4=s4;
this.s5=s5;
this.s6=s6;
}
String caste(String w) {
Scanner sc=new Scanner(System.in);
System.out.println("Enter Student's Caste (General/OBC/SC/ST)");
w=sc.next();
return w;
}
char gradetype(int s) {
char g;
if (s>=91){
g='A';
}
else if(s>=81) {
```

```
char gradetype(int s) {
char g;
if (s>=91){
g='A';
}
else if(s>=81) {
g='B';
}
else if(s>=71) {
g='C';
}
else if(s>=51) {
g='D';
}
else if(s>=33) {
g='E';
}
else {
g='F';
}
return g;
}
void display(String Name,int Roll_No, String DOB,int Semester, String sex) {
System.out.println("*****STUDENT'S REPORT CARD*****");
System.out.println("Student's Name is "+Name);
System.out.println("Student's Roll Number is "+Roll_No);
System.out.println("Student's Date of Birth is "+DOB);
System.out.println("Student's Branch "+Branch);
System.out.println("Student's Current Semester is "+Semester);
System.out.println("Student's Gender is "+sex);
System.out.println();
System.out.println("##Electronics##");
System.out.println("Marks:"+s1);
g1=gradetype(s1);
System.out.println("Grade:"+g1);
System.out.println();
System.out.println("##Data Structure##");
System.out.println("Marks:"+s2);
g2=gradetype(s2);
System.out.println("Grade:"+g2);
System.out.println();
System.out.println("##Engineering Mathematics 2##");
System.out.println("Marks:"+s3);
g3=gradetype(s3);
System.out.println("Grade:"+g3);
System.out.println();
System.out.println("##Information and Technology Workshop##");
System.out.println("Marks:"+s4);
g4=gradetype(s4);
System.out.println("Grade:"+g4);
System.out.println();
System.out.println("##Algebra##");
System.out.println("Marks:"+s5);
g5=gradetype(s5);
System.out.println("Grade:"+g5);
System.out.println();
System.out.println("##Creative Practice##");
System.out.println("Marks:"+s6);
g6=gradetype(s6);
System.out.println("Grade:"+g6);
System.out.println();
}
```

# OUTPUT

```
Console X RIMBERIO CO  
marksheet [Java Application] C:\Users\Aastha Kandwal\p2\pool\plugins\org.eclipse.jus  
Enter Number of Students:  
2  
Enter Student's Name  
Aastha  
Enter Student's Roll Number  
22124003  
Enter Student's Date of Birth in DD/MM/YYYY format  
14/08/2004  
Enter Student's Semester  
2  
Enter Student's Gender  
Enter F for female  
Enter M for male  
Enter O for Others  
F  
*****Electronics*****  
Enter mid_sem marks __/20:  
14  
Enter end_sem marks __/50:  
35  
Enter quiz1 marks __/5:  
4  
Enter quiz2 marks __/5:  
5  
Enter quiz3 marks __/5:  
2  
Enter assignment1 marks __/10:  
7  
Enter assignment2 marks __/10:  
6  
Enter Lab1 marks __/10:  
9  
Enter Lab2 marks __/10:  
6  
Enter Lab3 marks __/10:  
8  
Enter Lab4 marks __/10:  
7  
  
*****Data Structure*****  
Enter mid_sem marks __/30:  
25  
Enter end_sem marks __/50:  
43  
Enter assignment1 marks __/10:  
7  
Enter assignments2 marks __/10:  
5  
Enter Lab1 marks __/10:  
8  
Enter Lab2 marks __/10:  
6  
Enter Lab3 marks __/10:  
5  
Enter Lab4 marks __/10:  
6  
  
*****Engineering Mathematics 2*****  
Enter mid_sem marks __/30:  
24  
Enter end_sem marks __/50:  
45  
Enter quiz1 marks __/5:  
4  
Enter quiz2 marks __/5:  
3  
Enter quiz3 marks __/5:  
4  
Enter assignment1 marks __/10:  
6  
Enter assignment2 marks __/10:  
7
```

```
*****Information and Techonology Workshop*****  
Enter mid_sem marks __/25:  
20  
Enter end_sem marks __/25:  
21  
Enter assignment1 marks JAVA __/5:  
4  
Enter assignment2 marks OOPS __/5:  
3  
Enter assignment3 marks PYTHON __/5:  
5  
Enter project1 marks of JAVA __/20:  
19  
Enter project2 marks of PYTHON __/20:  
18  
Enter Lab1 marks for JAVA __/10:  
3  
Enter Lab2 marks for JAVA __/10:  
6  
Enter Lab3 marks for PYTHON __/10:  
7  
Enter Lab4 marks for PYTHON __/10:  
8  
*****Algebra*****  
Enter mid_sem marks __/30:  
26  
Enter end_sem marks __/50:  
43  
Enter quiz1 marks __/5:  
4  
Enter quiz2 marks __/5:  
2  
Enter quiz3 marks __/5:  
3  
Enter assignment1 marks __/10:  
6  
Enter assignment2 marks __/10:  
6
```

```
*****Information and Techonology Workshop*****  
Enter mid_sem marks __/25:  
20  
Enter end_sem marks __/25:  
21  
Enter assignment1 marks JAVA __/5:  
4  
Enter assignment2 marks OOPS __/5:  
3  
Enter assignment3 marks PYTHON __/5:  
5  
Enter project1 marks of JAVA __/20:  
19  
Enter project2 marks of PYTHON __/20:  
18  
Enter Lab1 marks for JAVA __/10:  
3  
Enter Lab2 marks for JAVA __/10:  
6  
Enter Lab3 marks for PYTHON __/10:  
7  
Enter Lab4 marks for PYTHON __/10:  
8  
*****Algebra*****  
Enter mid_sem marks __/30:  
26  
Enter end_sem marks __/50:  
43  
Enter quiz1 marks __/5:  
4  
Enter quiz2 marks __/5:  
2  
Enter quiz3 marks __/5:  
3  
Enter assignment1 marks __/10:  
6  
Enter assignment2 marks __/10:  
7
```

# FINAL RESULT

\*\*\*\*\*STUDENT's REPORT CARD\*\*\*\*\*

Student's Name is Aastha

Student's Roll Number is 22124003

Student's Date of Birth is 14/08/2004

Student's Branch Mathematics and Computing

Student's Current Semester is 2

Student's Gender is F

##Electronics##

Marks:71

Grade:C

##Data Structure##

Marks:80

Grade:C

##Engineering Mathematics 2##

Marks:82

Grade:B

##Information and Technology Workshop##

Marks:78

Grade:C

##Algebra##

Marks:81

Grade:B

##Creative Practice##

Marks:80

Grade:C

##Scholarship Status##

Y

##Caste##

General



# THANK YOU



Submitted by-Aastha Kandwal  
Anshika Agarwal