

```
Main.java
    java.util.Scanner;
    Student
{
    String usn;
    String name;
    int sem;
    public Student(String usn, String name, int sem) {
        this.usn = usn;
        this.name = name;
        this.sem = sem;
    }
}
class Test extends Student {
    int [] cie_marks;
    int [] credits;
    public Test(String usn, String name, int sem, int[] cie_marks, int[] credits) {
        super(usn, name, sem);
        this.cie_marks = cie_marks;
        this.credits = credits;
    }
}
class Exam extends Test {
    int [] see_marks;
    public Exam(String usn, String name, int sem, int[] cie_marks, int[] credits, int[] see_marks) {
        super(usn, name, sem, cie_marks, credits);
        this.see_marks = see_marks;
    }
}
```

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Main.java

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36 class Result extends Exam {
37     public Result(String usn, String name, int sem, int[] cie_marks, int[] credits, int[] see_marks) {
38         super(usn, name, sem, cie_marks, credits, see_marks);
39     }
40     double sgpa;
41     char [] grade = new char[credits.length];
42     public void cal_grade_sgpa(int tot_credits){
43
44         int sum=0;
45         for(int i=0;i<credits.length;i++) {
46             double marks = cie_marks[i] + (see_marks[i] / 2.0);
47             if (marks >= 90) {
48                 sum += credits[i] * 10;
49                 grade[i] = 'S';
50             } else if (marks >= 80 && marks < 90) {
51                 sum += credits[i] * 9;
52                 grade[i] = 'A';
53             } else if (marks >= 70 && marks < 80) {
54                 sum += credits[i] * 8;
55                 grade[i] = 'B';
56             } else if (marks >= 60 && marks < 70) {
57                 sum += credits[i] * 7;
58                 grade[i] = 'C';
59             } else if (marks >= 50 && marks < 60){
60                 sum += credits[i] * 6;
61                 grade[i] = 'D';
62             }
63             else if(marks>=40 && marks<50) {
64                 sum += credits[i] * 5;
65                 grade[i] = 'E';
66             }
67             else {
68                 sum += credits[i] * 0;
69             }
70         }
71         sgpa = sum / tot_credits;
72     }
73     public void printGrade() {
74         System.out.println("SGPA: " + sgpa);
75         System.out.println("Grade: " + Arrays.toString(grade));
76     }
77 }
```

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Main.java

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    }
    else {
        sum += credits[i] * 0;
        grade[i] = 'F';
    }
    sgpa = sum*1.0/tot_credits;
}
public void display()
{
    System.out.println("USN:"+usn);
    System.out.println("Name:"+name);
    System.out.println("SEM:"+sem);
    System.out.println("Grades of each subject:");
    for(int i=0;i<credits.length;i++)
    {
        System.out.println("Subject "+(i+1)+": "+grade[i]);
    }
    System.out.println("SGPA:"+sgpa);
}
class Main {
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter number of students:");
        int n = sc.nextInt();
        Result [] s = new Result[n];
        int [] tot_credits = new int[n];
        for(int i=0;i<n;i++)
        {
            System.out.println("-----Student "+(i+1)+"-----");
            System.out.print("Enter usn:");
            String usn = sc.next();
            System.out.print("Enter name:");
            String name = sc.next();
            System.out.print("Enter sem:");
            String sem = sc.next();
            System.out.print("Enter SGPA:");
            float sgpa = sc.nextFloat();
            Result r = new Result(usn, name, sem, sgpa);
            s[i] = r;
            tot_credits[i] = 0;
            for(int j=0;j<5;j++)
            {
                System.out.print("Enter grade for subject "+(j+1)+": ");
                String grade = sc.next();
                if(grade.equals("A"))
                    tot_credits[i] += 4;
                else if(grade.equals("B"))
                    tot_credits[i] += 3;
                else if(grade.equals("C"))
                    tot_credits[i] += 2;
                else if(grade.equals("D"))
                    tot_credits[i] += 1;
                else if(grade.equals("F"))
                    tot_credits[i] += 0;
            }
        }
        System.out.println("-----Result-----");
        for(int i=0;i<n;i++)
        {
            System.out.println("-----Student "+(i+1)+"-----");
            System.out.println("USN: "+s[i].getUsn());
            System.out.println("Name: "+s[i].getName());
            System.out.println("SEM: "+s[i].getSem());
            System.out.println("SGPA: "+s[i].getSgpa());
            System.out.println("Grades of each subject:");
            for(int j=0;j<5;j++)
            {
                System.out.println("Subject "+(j+1)+": "+s[i].getGrade(j));
            }
        }
    }
}
```

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```
System.out.print("Enter name:");
String name = sc.next();
System.out.print("Enter sem:");
int sem=sc.nextInt();
System.out.print("Enter number of subjects:");
int n1 = sc.nextInt();
System.out.println("Enter cie_marks:");
int [] cie_marks = new int[n1];
for(int j=0;j<n1;j++)
{
    int marks1 = sc.nextInt();
    cie_marks[j] = marks1;
}
System.out.println("Enter credits:");
int [] credits = new int[n1];
int sum = 0;
for(int j=0;j<n1;j++)
{
    int marks1 = sc.nextInt();
    credits[j] = marks1;
    sum += credits[j];
}
tot_credits[i] = sum;
System.out.println("Enter see_marks:");
int [] see_marks = new int[n1];
for(int j=0;j<n1;j++)
{
    int marks1 = sc.nextInt();
    see_marks[j] = marks1;
}
s[i] = new Result(usn,name,sem,cie_marks,credits,see_marks);
```

The image shows a close-up of a computer screen displaying a Java program in an IDE. The code is a class named Main.java, which reads student details from the console and calculates the SGPA. The IDE has a dark theme with syntax highlighting. The Java code is as follows:

```
    marks1 = sc.nextInt();
    cie_marks[j] = marks1;
}

System.out.println("Enter credits:");
int [] credits = new int[n1];
int sum = 0;
for(int j=0;j<n1;j++)
{
    int marks1 = sc.nextInt();
    credits[j] = marks1;
    sum += credits[j];
}
tot_credits[i] = sum;
System.out.println("Enter see_marks:");
int [] see_marks = new int[n1];
for(int j=0;j<n1;j++)
{
    int marks1 = sc.nextInt();
    see_marks[j] = marks1;
}
s[i] = new Result(usn,name,sem,cie_marks,credits,see_marks);
}
for(int k=0;k<n;k++)
{
    System.out.println("Details of Student "+(k+1)+":");
    s[k].cal_grade_sgpa(tot_credits[k]);
    s[k].display();
}
}
}
```

The IDE interface includes tabs for Run, Debug, Stop, Share, Save, and Beautify. Below the code editor, the taskbar shows the input window and various system icons. The Acer logo is visible on the laptop's body.