

The screenshot shows an online Java compiler interface. At the top, there's a toolbar with buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Java. The code editor contains a Java program for a Student class. The code includes imports, class definition, variable declarations, and an input method. The input method uses a Scanner to read student details from the system input.

```

import java.util.Scanner;
class Student {
    String usn;
    String name;
    int credits[];
    double marks[];
    int n;

    void input()
    {
        Scanner in=new Scanner(System.in);
        System.out.println("Enter student details");
        System.out.print("Name:");
        name=in.nextLine();
        System.out.print("USN:");
        usn=in.nextLine();
        System.out.println("Enter the number of subjects:");
        n=in.nextInt();
        credits=new int[n];
        marks=new double[n];
        System.out.println("Enter credits and marks obtained:");
        for(int i=0;i<n;i++)
    
```

input

```

System.out.println("Enter credits and marks obtained:");
for(int i=0;i<n;i++)
{
    System.out.println("Enter credits and marks attained in subject."+(i+1));
    credits[i]=in.nextInt();
    marks[i]=in.nextDouble();
}
}
void display()
{
    System.out.println("Student details:");
    System.out.println("Name:"+name);
    System.out.println("USN:"+usn);
    System.out.println("Marks in each subject:");
    for(int i=0;i<n;i++)
    {
        System.out.println("Subject "+(i+1)+": "+marks[i]);
    }
}
double calculate()
{

```


main.java

```
42     double sop=0.0,sumofc=0.0;
43     for(int i=0;i<n;i++)
44     {
45         sumofc+=credits[i];
46         if(marks[i]>=50)
47         {
48             sop+=(((marks[i]/10)+1)*credits[i]);
49         }
50         else if(marks[i]>=40 && marks[i]<50)
51         {
52             sop+=(4*credits[i]);
53         }
54     }
55     return sop/sumofc;
56 }
57 }
58 public class Main
59 {
60
61     public static void main(String args[]) {
62         Student stud1=new Student();
```

ain.java

```
46         if (marks[i] >= 50)
47         {
48             sop += ((marks[i]/10)+1)*credits[i];
49         }
50         else if (marks[i] >= 40 && marks[i] < 50)
51         {
52             sop += (4*credits[i]);
53         }
54     }
55     return sop/sumofc;
56 }
57 }
58 public class Main
59 {
60
61     public static void main(String args[]) {
62         Student stud1=new Student();
63         stud1.input();
64         stud1.display();
65         System.out.println("SGPA: "+stud1.calculate());
66     }
67 }
```


Develop a Java program to create a class student with members usn, name, an array credits and array marks. include methods to accept and display details and a method to calculate SGPA of a student.

```
import java.util.Scanner;
```

```
class student {
```

```
    String usn;
```

```
    String name;
```

```
    int credits[];
```

```
    double marks[];
```

```
    int n;
```

```
    void input()
```

```
    { Scanner in = new Scanner(new System.in);
```

```
      System.out.println("Enter student details");
```

```
      Follow Up System.out.println("Enter the student name");  
name name = in.nextLine();
```

```
      System.out.println("Enter the usn");
```

```
      usn = in.nextLine();
```

System.out.println("Enter the number of subjects");

n = in.nextInt();

credits = new int[n];

marks = new ~~marks~~ int[n];

System.out.println("Enter the credits and marks of ~~subject~~ every subject");

for (int i=0; i<n; i++)

System.out.println("Enter ^{the} credits and marks of sub: " + (i+1));

credits[i] = in.nextInt();

marks[i] = in.nextDouble();

}

24 Sunday

}

void display()

{

System.out.println("Student details");

Follow Up

System.out.println("Work to do. " + usn + " Name: " + name);

Monday

May

2020

25

Week 22

Day 146-220

Date 25-5-2020

JUN - 2020

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

```

System.out.println("Marks in each subject");
for (int i=0; i<n; i++)
{
    System.out.println("sub" + (i+1) + " + marks[i]");
}
}

```

```

double calculate()

```

```

{
    double sumofc=0.0; SOP = 0.0;

```

```

    for (int i=0; i<n; i++)
    {

```

```

        sumofc += credits[i];

```

```

        if (marks[i] >= 50)
        {

```

```

            sum SOP += ((marks[i]/10) + 1) * credits[i];
        }

```

```

        if if (marks[i] >= 40 && marks[i] < 50)
        {

```

```

            SOP += (4 * credits[i]);

```

Follow Up

}

Work to do

}

```

    return SOP / sumofc;

```

```

}

```

```
public class Main
```

```
{
```

```
public static void main (String args[]) {
```

```
    Student stud1 = new Student();
```

```
    stud1.Inputaccept();
```

```
    stud1.display();
```

```
    System.out.println ("SGPA of student is:
```

```
    " + stud1.calculate());
```

```
}
```

```
}
```

Follow Up

Work to do


```
C:\java>java Studentsgpa
Enter student details
USN:
123
Name:
tarun
Enter the number of subjects:
5
Enter credits and marks attained by the student in each subject
Enter credits and marks attained in subject1
7
67
Enter credits and marks attained in subject2
4
78
Enter credits and marks attained in subject3
5
87
Enter credits and marks attained in subject4
1
58
Enter credits and marks attained in subject5
4
76
Student details:
USN:123
Name:tarun
Marks in each subject:
Subject 1:67
Subject 2:78
Subject 3:87
Subject 4:58
Subject 5:76
SGPA: 7.809523809523809
```