

```
import java util.*;  
class student {
```

```
    private String usn;  
    private String name;  
    private int rced[];  
    private int marks[];  
    private int n;
```

```
    void accept ()  
    {
```

```
        Scanner s = new Scanner (System.in);  
        System.out.println("Enter student details");  
        System.out.println("USN of the student:");  
        usn = s.next();  
        System.out.println("Name of student:");  
        name = s.next();  
        System.out.println("Enter the number of  
        Subjects");
```

```
        n = s.nextInt();
```

```
        rced[i] = s.nextInt();
```

```
        marks[i] = s.nextInt();
```

```
    }  
    }  
    void display ()
```

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

```

System.out.println("USN:" + usn);
System.out.println("Name:" + name);
System.out.println("Marks in each subject:");

```

```

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

```

```

{

```

```

    System.out.println("Subject " + (i+1) + "
    "marks[i]);

```

```

}

```

```

}

```

```

double calculate ()

```

```

{

```

```

    int tp = 0, tc = 0;

```

```

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

```

```

    {

```

```

        tc = tc + cred[i];

```

```

        if (marks[i] >= 50)

```

```

        {

```

```

            tp = tp + (((marks[i]/10) + 1) * cred[i]);

```

```

        }

```

```

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

```

```

        {

```

```

            tp = tp + (4 * cred[i]);

```

```

        }

```

```

}

```

```

return (double) tp / tc;

```

```

}

```

```

}

```

Class main

{

Public static void main (String ss []) {

Student s1 = new Student();

s1.accept();

s1.display();

System.out.println("SGPA: "+s1.calculate());

}

```

import java.util.*;
class Student {
private String usn;
private String name;
private int cred[];
private int marks[];
private int n;

void accept()
{
    Scanner s=new Scanner(System.in);
    System.out.println("Enter student details");
    System.out.println("USN of the student:");
    usn=s.next();
    System.out.println("Name of student:");
    name=s.next();
    System.out.println("Enter the number of subjects:");
    n=s.nextInt();
    cred=new int[n];
    marks=new int[n];
    System.out.println("Enter credits and marks attained by the student in each subject (out of 100):");
}
}

```

```

    cred=new int[n];
    marks=new int[n];
    System.out.println("Enter credits and marks attained by the student in each subject(out of 100)");
    for(int i=0;i<n;i++)
    {
        cred[i]=s.nextInt();
        marks[i]=s.nextInt();
    }
}
void display()
{
    System.out.println("Student details:");
    System.out.println("USN:"+usn);
    System.out.println("Name:"+name);
    System.out.println("Marks in each subject:");
    for(int i=0;i<n;i++)
    {
        System.out.println("Subject "+(i+1)+":"+marks[i]);
    }
}
double calculate()

```



```
double calculate()
{
    int tcp=0,tc=0;
    for(int i=0;i<n;i++)
    {
        tc=tc+cred[i];
        if(marks[i]>=50)
        {
            tcp=tcp+(((marks[i]/10)+1)*cred[i]);
        }
        else if(marks[i]>=40 && marks[i]<50)
        {
            tcp=tcp+(4*cred[i]);
        }
    }
    return (double)tcp/tc;
}

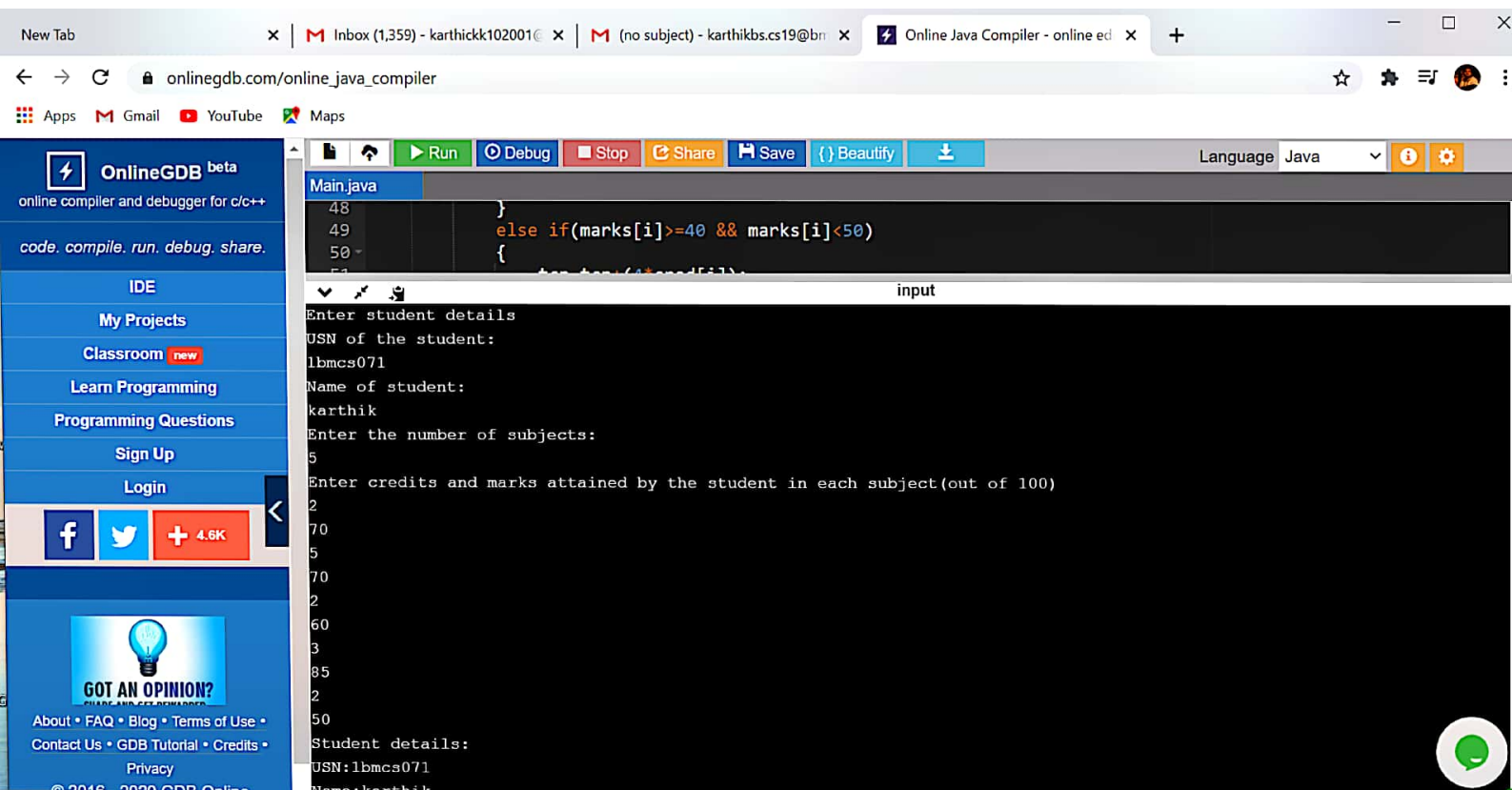
class Main
{
```

```
        tcp=tcp+(((marks[i]/10)+1)*cred[i]);  
    }  
    else if(marks[i]>=40 && marks[i]<50)  
    {  
        tcp=tcp+(4*cred[i]);  
    }
```

```
    }  
    return (double)tcp/tc;  
}
```

```
class Main  
{
```

```
    public static void main(String ss[]) {  
        Student s1=new Student();  
        s1.accept();  
        s1.display();  
        System.out.println("SGPA: "+s1.calculate());  
    }  
}
```



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Main.java

```
48 }
49 else if(marks[i]>=40 && marks[i]<50)
50 {
51     // ...
52 }
```

input

```
70
2
60
3
85
2
50
Student details:
USN:lbmcs071
Name:karthik
Marks in each subject:
Subject 1:70
Subject 2:70
Subject 3:60
Subject 4:85
Subject 5:50
SGPA: 7.785714285714286

...Program finished with exit code 0
Press ENTER to exit console.
```