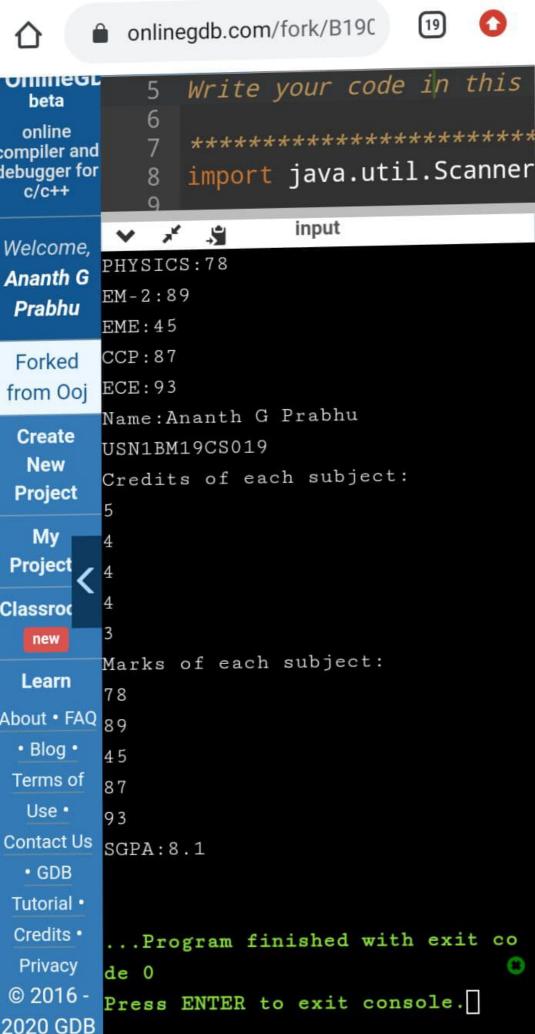
```
import java.util.Scanner:
    class Student
                   name;
        private int[] credits;
private int[] marks;
private int sum=0;
private double cgpa;
         public void setUsn(String usn) {
              this.usn = usn;
         public void setName(S
                                       mame) {
              this.name = name;
         public void setCredits(int[] credits) {
              this.credits = credits;
         public void setMarks(int[] marks) {
              this.marks = marks;
         void display()
              System.out.println("Name:"+name);
              System.out.println("USN" usn);
                     .out.println("Credits of each subject:");
              for (int i=0;i credits.length;i++)
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                          .out.println(credits[i]);
                  n == credits[i];
                     .out.println("Marks of each subject:");
              for(int i=0;i marks.length;i++)
                          .out.println(marks[i]);
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          void cal_sgpa()
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              for(int i=0;i*marks.length;i++)
                   if(marks[i] = 90)
                       sum += credits[i]*10;
                   else if(marks[i]>=80 88 marks[i]<90)
                       sum += credits[i]*9;
                  else if(marks[i]>=70 && marks[i]<80)
                  sum += credits[i]*8;
else if(marks[i]*=60 && marks[i]<70)
    sum += credits[i]*7;
else if(marks[i]>=50 && marks[i]<60)</pre>
                       sum ** credits[i]*6;
                   else if(marks[i]>=40 && marks[i]<50)
                       sum *= credits[i]*5;
                       sum == credits[i] 0;
              sgpa sum 1.0/n:
                     .out.println("SGPA:"+sgpa);
```

```
public void setCredits(int[] credits) {
             this.credits = credits;
         public void setMarks(int[] marks) {
             this.marks = marks;
         void display()
                    .out.println("Name:"#name);
                    .out.println("USN"+usn);
                    .out.println("Credits of each subject:");
             for(int i=0;i<credits.length;i++)</pre>
                         .out.println(credits[i]);
                  n == credits[i];
                    .out.println("Marks of each subject:");
             for(int i=0;i marks.length;i++)
                         .out.println(marks[i]);
             }
         void cal_sgpa()
             for(int i=0;i marks.length;i++)
             1
                  if(marks[i]==90)
                      sum += credits[i] 10;
                  else if(marks[i]>=80 8
                                           marks[i]<90)
                      sum == credits[i] 9;
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                  else if(marks[i]>=70 && marks[i] *80)
                      sum *= credits[i]*8;
                  else if(marks[i]>=60 88 marks[i]<70)
                      sum == credits[i]*7;
                  else if(marks[i] = 50 && marks[i] < 60)
                      sum - credits[i] 6;
                  else if(marks[i]>=40 && marks[i]<50)
                      sum *= credits[i]*5;
                      sum *= credits[i]*0;
             sgpa sum 1.0/n;
                    .out.println("5GPA:"*sgpa);
         }
    public class Main
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         public static void main(String args[])
             Scanner sc = new Scanner(5
                                                .in);
             int [] credits = new int[]{5,4,4,4,3};
                     [] subject = new
                                              IE[]{"PHYSICS", "EM-2","EME","CCP","ECE"};
             int[] marks=new int[credits.length];
for(int i=0;i<credits.length;i++)</pre>
                         .out.print(subject[i]*":");
                 marks[i]=sc.nextInt();
             Student s = new Student();
s.setUsn("1BM19CS019");
             s.setName("Ananth G Prabhu");
             s.setMarks(marks);
             s.setCredits(credits);
             s.display();
             s.cal_sgpa();
         }
```

Main java



Online