```
Student.java
       class student
                      String usn,name;
                     int credits[];
double marks[],sgpa;
                      int size;
            private double gp[];
Scanner sc=new Scanner(System.in);
            student()
{
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18
                 System.out.println("Enter number of subjects");
                system.out.pintent che
size=sc.nextInt();
credits=new int[size];
marks=new double[size];
usn="";
name="";
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                 System.out.println("Enter the name of the student");
                 name=sc.next();
System.out.println("enter usn of students");
                   or(int i=0;i<size;i++)
                      System.out.println("enter marks obtained and credits sub"+(i+1));
marks[i]=sc.nextDouble();
                      credits[i]=sc.nextInt();
                 }
                38
39
```

```
Student.java
44
          void calc()
              double sum=0,total=0;
              for(int i=0;i<size;i++)
                  sum=sum+credits[i];
                  if(marks[i]>=90)
                      total=total+(10*credits[i]);
                      gp[i]=10*credits[i];
                  else if(marks[i]>=80)
                      total=total+(9*credits[i]);
                      gp[i]=9*credits[i];
                  else if(marks[i]>=70)
                      total=total+(8*credits[i]);
64
                      gp[i]=8*credits[i];
                  }
                  else if(marks[i]>=60)
                      total=total+(7*credits[i]);
                      gp[i]=7*credits[i];
70
                  else if(marks[i]>=50)
73
                      total=total+(5*credits[i]);
74
                      gp[i]=5*credits[i];
                  else if(marks[i]>=40)
                      total=total+(4*credits[i]);
79
                      gp[i]=4*credits[i];
83
```

```
clse
{
          total=total*(0*credits[i]);
          gp[i]=0*credits[i];
}

sgpa=total/sum;
}

class student1
{
    public static void main(String args[]) {
          student s=new student();
          s.accept();
          s.calc();

s.display();
}

s.display();
}
```

```
[Arvinds-MacBook-Pro:ooj Arvind$ java student1
Enter number of subjects
Enter the name of the student
anvitha
enter usn of students
1bm19cs021
enter marks obtained and credits sub1
100
5
enter marks obtained and credits sub2
enter marks obtained and credits sub3
70
3
name:anvitha
usn:1bm19cs021
----marks obtained----
sub 1: marks=100.0 ; credits=5; grade_points=50.0;
sub 2: marks=90.0 ; credits=4; grade_points=40.0;
sub 3: marks=70.0 ; credits=3; grade_points=24.0;
sgpa:9,50
Arvinds-MacBook-Pro:ooj Arvind$
```