```
t java.util.*;
student
private String usn,name;
private int credits[];
private double marks[],sgpa;
private int size;
private double gp[];
Scanner sc=new Scanner(System.in);
student()
     System.out.println("Enter number of subjects");
size=sc.nextInt();
credits=new int[size];
marks=new double[size];
gp=new double[size];
usn="";
name="";
yoid accept()
      System.out.println("Enter the name of the student");
name=sc.next();
      System.out.println("enter usn of students");
usn=sc.next();
for(int i=0;i<size;i++)
{</pre>
            System.out.println("enter marks obtained and credits sub"+(i+1));
marks[i]=sc.nextDouble();
credits[i]=sc.nextInt();
void display()
```

```
System.out.printf("sgpa:%.2f\n",sgpa);
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]);
           gp[i]=8*credits[i];
        else if(marks[i]>=60)
           total=total+(7*credits[i]);
           gp[i]=7*credits[i];
       else if(marks[i]>=50)
           total=total+(5*credits[i]);
           gp[i]=5*credits[i];
       else if(marks[i]>=40)
           total=total+(4*credits[i]);
           gp[i]=4*credits[i];
```

```
}
else
                  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();
```

```
ON. Command Prompt
C:\workspace>java student1
Enter number of subjects
Enter the name of the student
Rahul
enter usn of students
1BM19CS204
enter marks obtained and credits sub1
80 4
enter marks obtained and credits sub2
70 3
enter marks obtained and credits sub3
65 2
enter marks obtained and credits sub4
75 4
enter marks obtained and credits sub5
78 5
enter marks obtained and credits sub6
56 5
name:Rahul
usn:1BM19CS204
-----marks obtained-----
sub 1: marks=80.0 ; credits=4; grade_points=36.0;
sub 2: marks=70.0 ; credits=3; grade_points=24.0;
sub 3: marks=65.0; credits=2; grade_points=14.0; sub 4: marks=75.0; credits=4; grade_points=32.0; sub 5: marks=78.0; credits=5; grade_points=40.0;
sub 6: marks=56.0 ; credits=5; grade_points=25.0;
sgpa:7.43
C:\workspace>
```