

```
import java.util.*;
```

```
class Student
```

```
{
```

```
    private String USN;
```

```
    private String name;
```

```
    private int n;
```

```
    private double SGPA = 0;
```

```
    private int totalCredits = 0;
```

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

```
void Details()
```

```
{
```

```
System.out.println("Enter USN of the student");
```

```
USN = ss.nextLine();
```

```
System.out.println("Enter Name of the student");
```

```
name = ss.nextLine();
```

```
System.out.println("Enter no of subjects");
```

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

```
int credits[] = new int[n];
```

```
double marks[] = new double[n];
```

```
System.out.println("Enter details of the subjects:");
```

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

```
{
```

```
System.out.println("Enter credits allotted to the subject "+(i+1));
```

```
    credits[i] = ss.nextInt();
```

```
    System.out.println("Enter marks in the subject "+(i+1));
```

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

```
    Calculate(credits[i],marks[i],i);
```

```
}
```

```
}
```

```
void Calculate(int credit,double mark,int j)
```

```
{
```

```
totalCredits = totalCredits + credit;
```

```
    if(mark>=90&&mark<=100)
```

```
        SGPA = SGPA + (10*credit);
```

```
else if(mark>=80 && mark<=89)
```

```
    SGPA = SGPA + (9*credit);
```

```
else if(mark>=70&&mark<=79)
```

```
    SGPA = SGPA + (8*credit);
```

```
else if(mark>=60&&mark<=69)
```

```
    SGPA = SGPA + (7*credit);
```

```
else if(mark>=50 && mark<=59)
```

```
    SGPA = SGPA + (6*credit);
```

```
else if(mark>=40&&mark<=49)
```

```
    SGPA = SGPA + (5*credit);
```

```
else
```

```
    System.out.println("Failed in ubject "+(j+1));
```

```
}
```

```
void Display()
```

```
{
```

```
System.out.println("Details of the Student");
```

```
    System.out.println("Name :"+name);
```

```
    System.out.println("USN: "+USN);
```

```
    System.out.println("SGPA of student "+(SGPA/totalCredits));
```

```
}
```

```
}
```

```
class Main
```

```
{
```

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

```
{
```

```
Student s1 = new Student();
```

```
s1.Details();
```

```
s1.Display();
```

```
}
```

}

```
C:\Windows\system32\cmd.exe
C:\Users\cw\Desktop>java main
Error: Could not find or load main class main

C:\Users\cw\Desktop>java Main
Enter USN of the student
1bm19cs015
Enter Name of the student
amit
Enter no of subjects
5
Enter details of the subjects:
Enter credits allotted to the subject 1
45
Enter marks in the subject 1
89
Enter credits allotted to the subject 2
45
Enter marks in the subject 2
78
Enter credits allotted to the subject 3
50
Enter marks in the subject 3
90
Enter credits allotted to the subject 4
34
Enter marks in the subject 4
78
Enter credits allotted to the subject 5
34
Enter marks in the subject 5
56
Details of the Student
Name :amit
USN: 1bm19cs015
SGPA of student 8.370192307692308

C:\Users\cw\Desktop>
```

Practise set week-4

```
import java.util.*;

✓ public class SGPA {

    class Student Part 1
    {
        private String name;
        private String USN;
        private int n;
        private int totalCredits = 0;
        private int SGPA = 0;

        void calculate ()
        {
            ⑤ Scanner sc = new Scanner (System.in);
            System.out.println("Enter the name of student::");
            name = sc.nextLine();
            System.out.println("Enter USN");
            USN = sc.nextLine();
            System.out.println("Enter the number of subjects");
            n = sc.nextInt();
            int marks[] = new int[n];
            int SGPA
            int credit[] = new int[n];
            for (i=0; i<n; i++) {
                System.out.println("Enter the marks of sub" + (i+1));
                mark[i] = new int[] sc.nextInt();
                System.out.println("Enter the credits of sub" + (i+1));
                credit[i] = sc.nextInt();
            }
            function (marks, credit, i);
        }
    }
}
```



```

void function (int marks, int credit, int j)
{
    total credits = total credits + credit;
    if (marks >= 90 && marks <= 100)
        SGPA = SGPA + (10 * credit);
    elseif (marks >= 80 && marks <= 89)
        SGPA = SGPA + (9 * credit);
    else if (marks >= 70 && marks <= 69)
        SGPA = SGPA + (8 * credit);
    else if (marks >= 60 && marks <= 59)
        SGPA = SGPA + (7 * credit);
    else if (marks >= 50 && marks <= 49)
        SGPA = SGPA + (6 * credit);
    else if (marks >= 40 && marks <= 39)
        SGPA = SGPA + (5 * credit);
    else
        system.out.println("Failed in subject" + (j+1));
}

void Display()
{
    system.out.println("Details of the student:");
    system.out.print("Name: " + name);
    system.out.println("ID USN: " + USN);
    system.out.println("SGPA of student" + (SGPA / total credit));
}

```

```

class SGPA
{
    public static void main (String args[])
    {
        student s1 = new student ();
    }
}

```

sl. calculate ();  
sl. display ();

}  
}