

Student ()

{

int i
subject = new subject[9]

for (i=0; i<9; i++)

subject[i] = new subject();

s8 = new Scanner (System.in);

}

void getStudentDetails()

{

System.out.println ("Enter your name : ");

name = s.nextLine();

System.out.println ("Enter your usn : ");

usn = s.nextInt();

}

void getMarks()

{

int i;

for (i=0; i<8; i++)

{

System.out.println ("Enter the marks &
credits for course " + i + ": ");

System.out.println ("marks : ");

int creditmarks = s.nextInt();

System.out.println ("credits : ");

int credits = s.nextInt();

subject[i].~~subject~~marks = marks;

subject[i].subjectMarks = credit;

if (marks >= 90)

{

subject[i].grade = 'O';

}

```
else if (marks >= 80)
    subject[i].grade = "A";
else if (marks >= 70)
    subject[i].grade = "A";
else if (marks >= 60)
    subject[i].grade = "B+";
else if (marks >= 50)
    subject[i].grade = "B";
else if (marks >= 40)
    subject[i].grade = "C";
else {
    subject[i].grade = "F";
}
```

```
void computeSGPA()
{
    int i;
    double SGPA;
    double totalCredits = 0;
    double totalGp = 0;
    for (i = 0; i < 8; i++)
    {
        totalCredits += subject[i].credits;
        switch (subject[i].grade)
        {
            case "O": totalGp += 10 * subject[i].credits;
                        break;
            case "A+": totalGp += 9 * subject[i].credits;
                        break;
            case "A": totalGp += 8 * subject[i].credits;
                        break;
            case "B+": totalGp += 7 * subject[i].credits;
                        break;
        }
    }
    SGPA = totalGp / totalCredits;
}
```

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case "B": totalgp += 6 * subject[i].credit;
break;

case "C": totalgp += 5 * subject[i].credit;
break;

case "F": totalgp += 0 * subject[i].credit;
break;

}

}

Sgpa = totalgp / total credits;

System.out.println ("The SGPA is : "+ Sgpa);

}

class sgpa

public static void main (String [] args){

Student s1 = new Student();

s1.getStudentDetails();

s1.getMarks();

s1.computeSGPA();

}

}

Output:

Copy

Enter your name:

Sujnyan

Enter your ucn:

IBM22EC264

Enter the marks and credit for course 0:

Marks:

90

Credit:

4

Enter the marks and credits for course 1:

Marks:

91

Credit:

4

Enter the

Marks:

91

Credit:

3

Enter t

Marks:

93

Credit:

2

Enter

Marks:

90

Credit:

01

Enter

Marks:

92

Credit:

01

Enter

Marks:

92

Credit:

01

Enter

Marks:

91

Credit:

01

Enter

Marks:

91

Credit:

01

Marks :

91

Credits :

4

Enter the marks & credits for course 3 :

Marks :

91

Credits :

3

Enter the marks & credit for course 4 :

Marks :

93

Credits :

2

Enter the marks & credits for course 5 :

Marks : 90

90

Credits :

01

Enter the marks & credit for course 6 :

Marks :

92

Credits :

01

Enter the marks & credits for course 7 :

Marks :

90

Credits :

02

The SGPA is 10.000000.