

19-10-03

Java program to create class Student with members
USN, name, calculate SGPA of student

→ import java.util.Scanner;
class Subject {
 int SubjectMark;
 int credit;
 int grade;
}

public class Student {
 Subject[] subject;
 String name;
 String USN;
 double SGPA;
 Scanner s;

Student()
{

int i;

subject = new Subject[9];

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

subject[i] = new Subject();

s = new Scanner(System.in);

public void getStudentDetails()

System.out.print("Enter Name: ");

name = s.nextLine();

System.out.print("Enter USN: ");

USN = s.nextLine();

}

public void getMarks()

{

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

```
    System.out.print ("Enter the Subject  
Mark " + (i+1) + ": ");  
    subject[i].subjectMark = sc.nextInt();  
    System.out.print ("Enter the Credit " + (i+1) + "  
: ");  
    subject[i].credit = sc.nextInt();  
    write (subject[i].subjectMark > 100);  
    System.out.println ("Marks entered are  
invalid, Enter the Marks in between 1 to 100");  
    i--;  
    else if (subject[i].subjectMark == 90)  
    {  
        subject[i].grade = "A";  
    }  
    else if (subject[i].subjectMark == 80)  
    {  
        subject[i].grade = "B";  
    }  
    else if (subject[i].subjectMark == 70)  
    {  
        subject[i].grade = "C";  
    }  
    else if (subject[i].subjectMark == 60)  
    {  
        subject[i].grade = "D";  
    }  
    else if (subject[i].subjectMark <= 50)  
    {  
        subject[i].grade = "E";  
    }  
    else if (subject[i].subjectMark > 100)
```

Subject [i].grade = "O";

public void compute SGPA()

{

double total Credits = 0;

double total Grade Points = 0;

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

{

total Credits += Subject[i].credits;

total Grade Points += Subject[i].grade * Subject[i].credits;

}

SGPA = total Grade Points / total Credits;

public static void main (String [] args)

{

Student s1 = new Student();

s1. get Student Details();

s1. get Marks();

s1. computeSGPA();

System.out.println ("Name: " + s1. Name);

System.out.println ("USN: " + s1. USN);

System.out.println ("SGPA: " + s1. SGPA);

Output

Enter Name:
Pragya C

Enter USN:
13182CS198

Enter marks for subject 1:

89

Enter credits for subject 1:

4

Enter marks for subject 2:

86

Enter credits for subject 2:

4

Enter marks for subject 3:

79

Enter credits for subject 3:

3

Enter marks for subject 4:

90

Enter credits for subject 4:

3

Enter marks for subject 5:

93

Enter credits for subject 5:

3

Enter marks for subject 6:

91

Enter credits for subject 6:

3

Center marks for subject 7.

87

Center marks credits for subject 7:

8

Center marks for subject 8:

98

Center credits for subject 8:

1

Name: Prajwal C

USN: 13M0025198

SGPA: 9.25

AS
19/12/13