

Ex. Develop a Java program to create a class Student with members, name, marks, an array of subjects and an array marks. Include methods to accept name, an array marks and an array of subjects and a method to calculate sum of a name and display details and a method to calculate sum of a grade.

student.

```

import java.util.*;
class Subject
{
    int subjectMarks;
    int credits;
    int grade;
}
class Student
{
    Subject subject[ ];
    String name;
    String un;
    double gpa;
    Scanner s;
    Student()
    {
        for(i=0; i<4; i++)
        {
            subject[i] = new Subject();
        }
        s = new Scanner(System.in);
    }
    void getStudentDetails()
    {
        System.out.println("Enter student name");
        name = s.next();
        System.out.println("Enter student UN");
        un = s.next();
    }
}

```

void getmarks()

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

accept

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

subject[i].marks = S.nextInt();

System.out.println("Enter number of credits");

subject[i].credits = S.nextInt();

subject[i].grade = (subject[i].subjectMarks / 10) + 1;

if (subject[i].grade == 11)

subject[i].grade = 10;

if (subject[i].grade <= 4)

subject[i].grade = 0;

}

void computeGPA()

{  
int effectiveScore = 0;

int totalCredits = 0;

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

effectiveScore += subject[i].marks \* subject[i].credits;

totalCredits += subject[i].credits;

GPA = (double) effectiveScore / (double) totalCredits;

}

class Main

{  
public static void main (String args[])

student m1 = new student();  
m1.getStudentDetails();  
m1.getMarks();  
m1.getTotal();

void getMarks()

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

```
System.out.println("Enter marks");
Subject[i].subjectMarks = Scanner.nextInt();
System.out.println("Enter number of credits");
Subject[i].credits = Scanner.nextInt();
Subject[i].grade = (Subject[i].subjectMarks/10) + 1;
if (Subject[i].grade == 11)
    Subject[i].grade = 10;
if (Subject[i].grade <= 4)
    Subject[i].grade = 0;
```

}

System.out.println("GPA is " +

void computeGPA()

```
int effectiveScore = 0;
int totalCredits = 0;
for (int i = 0; i < 9; i++)
    effectiveScore = Subject[i].grade * Subject[i].credits;
    totalCredits += Subject[i].credits;
```

GPA = (effectiveScore / (total) totalCredits);

}

class Main

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

```
    Student s1 = new Student();
    s1.getStudentDetails();
    s1.getMarks();
    s1.computeGPA();
}
```

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Enter marks

entry number

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60

ENR INC

Student

Index

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1

2

6

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10

10

10

10

10

10

Enter name

PP

Enter number of credits.

3

Enter name

89

Enter number of credits.

3

Enter name

#6

Enter number of credits.

3

Student name : Surjana

Student ID : 15m38c189

Student SGPA : 9.185185185

Ma  
19-12

SANTANA SURJANA

15M38C189