

2) Develop a java program to create a class Student with members USn, name, an array Credit, and an array marks, include methods to accept and display details and a method to calculate SGPA of a student.

$$SGPA = \frac{\sum (\text{Credit course}) (\text{Grade points})}{\sum (\text{no. of credit})}$$

```
import java.util.*;

class Subject {
    int subjectMarks;
    int credit;
    int grade;
}

class student {
    String name;
    String USn;
    double sgpa;
    Scanner S;
    Subject subject[];

    student() {
        int i;
        subject = new Subject[9];
        for (i = 0; i < 9; i++)
            subject[i] = new Subject();
    }

    S = new Scanner(System.in);

    void getStudentDetails() {
        System.out.println("Enter the name:");
        name = S.nextLine();
        System.out.println("Enter the USn:");
    }
}
```

DATE: _____
USn = S.nextLine();

q

void getMarks() {

int i;

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

{

System.out.println("enter the marks and
credits " + i + " : ");

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

int marks = S.nextInt();

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

int credit = S.nextInt();

Subject[i].SubjectMarks = marks;

Subject[i].credits = credit;

Subject[i].grade = (Subject[i].SubjectMarks /
10) + 1;

if (Subject[i].SubjectMarks == 10)

{

Subject[i].SubjectMarks = 10;

}

if (Subject[i].SubjectMarks <= 4)

{

Subject[i].SubjectMarks = 0;

}

}

}

void computeSGPA() {

int i;

int totalCredits = 0;

int evaluateMarks = 0;

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

{

totalCredits += Subject[i].credits;

DATE :
evaluatemarks += subject[i], grade * Subject[i].
credits;

g
sgpa = (float) evaluatemarks / total credits;
System.out.println("sgpa = " + sgpa);

g
class main {
public static void main(String[] args) {
Student s1 = new Student();
s1.getStudentDetails();
s1.getMark4();
s1.computeSGPA();
g
g

Output

enter the name:

Shashank

enter the USN:

1BM22CS255

enter the marks and Credit 0:

enter the marks

95

enter the Credit:

4

enter the marks and Credit 1:

enter the marks

92

enter the Credit:

4

enter the marks and Credit 2:

enter the marks 88
88

enter the credits:

3

enter the marks and credits:

enter the marks:

88

enter the credits:

3

enter the marks and credits:

enter the marks:

88

enter the credits:

1

enter the marks and credits:

enter the marks:

88

enter the credits:

3

enter the marks and credits:

enter the marks:

78

enter the credits:

3

enter the marks and credits:

enter the marks:

99

enter the credits:

1

enter the marks and credits:

enter the marks:

0

enter the credits:

0

DATE :

Shashank Patel CJ

1BM22CS 255

19/12/2023

[illegible]

1. From 1st Nov

22

1945 1946 1947

8

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1. *Alnus* *alba* *Mill.*

100

1944

• A. bifida kann durch Wit. absterben

1. 11/11/11 11/11/11

88

1. Black with blue

3

1. 10/10/10 100 1000 100 1000

1970/71 4/2 1/2

84

1. What is the purpose of the study?

3

17. Who has shown it?

Summer 1978

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1

28. 11. 01 has dinner etc. etc.

14.000 14.100

C

1889