

Develop a java program to create a class student with members usn, name, an array credits and an array members. Include methods to accept and display details and a method to calculate sgpa of a student

```
import java.util.Scanner;
class student {
    String usn, name;
    int credits [], marks [], grade points [], n;
    name = 0, denum = 0;
    double sgpa;
    void accept()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter student name, usn");
        name = s.next();
        usn = s.next();
        System.out.println("Enter number of subjects");
        n = s.nextInt();
        for(i=0; i<n; i++)
        {
            System.out.println("Enter subject" + (i+1) + "marks");
            marks[i] = s.nextInt();
            System.out.println("Enter subject" + (i+1) + "credits");
            credits[i] = s.nextInt();
            denum += credits[i];
        }
    }
}
```

```
void calcula
{ for(i=0; i
```

```
{ if(ma
grade
else if(n
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else if
gr
else if
else
```

```
else
{
```

```
{
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}
void
{ sy
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```



```
void calculate()
```

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

```
{ if(marks[i] >= 90)
  grade points[i] = 10;
```

```
  else if(marks[i] >= 80 && marks[i] < 90)
    grade points[i] = 9;
```

```
  else if(marks[i] >= 70 && marks[i] < 80)
    grade points[i] = 8;
```

```
  else if(marks[i] >= 60 && marks[i] < 70)
    grade points[i] = 7;
```

```
  else if(marks[i] >= 50 && marks[i] < 60)
    grade points[i] = 6;
```

```
  else if(marks[i] >= 40 && marks[i] < 50)
    grade points[i] = 4;
```

```
  else
    grade points[i] = 0;
```

```
  name + = credits * grade points[i];
```

```
}
```

```
sgpa = name / dnum;
```

```
}
```

```
void display()
```

```
{ system.out.println("Student details ");
```

```
  system.out.println("name" + name + "\n" + "usd" + "\n");
```

```
  system.out.println("marks to grade");
```

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

```
  { system.out.print(marks[i] + " ");
```

```
    system.out.print("credits[i]");
```

```
  }
  system.out.println("SGPA" + sgpa);
```

```
}
```

90

4

89

3

89

Name:Dhanush USN:1BM21CS053

credits	Marks
---------	-------

4	90
---	----

4	89
---	----

3	89
---	----

Total credits=11

SGPA=9.363636363636363

SGPA=9.363636363636363