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USN: 1BM21CS254

Q: Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

Code: -

```
import java.util.Scanner;

class student
{
    String usn;
    String name;
    int credits[]= new int[9];
    int marks[]= new int[9];

    void enterInfo()
    {
        Scanner sc = new Scanner(System.in);

        System.out.println("enter the USN");
        this.usn = sc.nextLine();
```

```
System.out.println("Enter the Name: ");  
this.name= sc.nextLine();
```

```
System.out.println("Enter the credits: ");  
for(int i=0;i<9;i++)  
{  
this.credits[i]=sc.nextInt();  
}
```

```
System.out.println("enter your marks: ");  
for(int i=0;i<9;i++)  
{  
this.marks[i]=sc.nextInt();  
}  
}
```

```
void displayInfo()  
{  
System.out.println("\nBelow is the Student Information:-\n");  
System.out.println("USN: "+this.usn);  
System.out.println("NAME: "+this.name);
```

```
System.out.println("CREDITS: ");  
for(int i=0;i<9;i++)  
{
```

```
System.out.println(this.marks[i]+" ");  
}  
}
```

```
float calculateSGPA()  
{  
float sgpa;
```

```
float totalcreds=0;  
for(int i=0;i<9;i++)  
{  
totalcreds+=this.credits[i];  
}
```

```
float gp=0;  
for(int i=0;i<9;i++)  
{  
gp+=this.credits[i]*(((this.marks[i])/10)+1);  
}
```

```
sgpa=gp/totalcreds;  
return sgpa;  
}  
}
```

```
public class calc
```

```

{
public static void main(String args[])
{
student s1= new student();
s1.enterInfo();
s1.displayInfo();
float sgpa=s1.calculateSGPA();
System.out.println("\nSGPA: "+sgpa);
}
}

```

Output: -

```

C:\Users\Admin\Desktop\1bm21cs254>java calc
enter the USN
1BM21CS254
Enter the Name:
L.Lawliet
Enter the credits:
3 4 1 3 1 3 1 3 1
enter your marks:
50 62 86 68 62 75 56 78 79

Below is the Student Information:-

USN: 1BM21CS254
NAME: L.Lawliet
CREDITS:
50
62
86
68
62
75
56
78
79

SGPA: 7.25

```