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1BM19EC014

Lab:08) Java program to create a class student with members usn, name, an array credits & marks. Include methods to accept & display details & a method to find SGPA.

```
import java.util.*;

Class Student
{ private int grade[];
  private String name;
  private String usn;
  private int marks[];
  private int cr[];
  private double sum=0.0;
  private double total=0.0;
private int cr= new int[5];
private int grade= new int[7];
private int marks= new int[5];
    private double sgpa;
  void getDetails()
  {
    System.out.println("Enter the Student details:");
    Scanner sc= new Scanner(System.in);
    System.out.println("Enter name:");
     name= sc.next();
    System.out.println("USN:");
      usn= sc.next();
    for(int i=0;i<5;i++)
    { System.out.println("Enter the marks for subj"
                          +(i+1)+":");
      marks[i]=sc.nextInt();
     System.out.println("Credits of subj "+(i+1)+":");
```

```
        n[i] = sc.nextInt();
    }
}
void calculate()
{   for (int i=0; i<5; i++)
    {   if (marks[i] > 90 && marks[i] <= 100)
        grade[i] = 10;
        else if (marks[i] > 80 && marks[i] <= 90)
        grade[i] = 9;
        else if (marks[i] > 70 && marks[i] <= 80)
        grade[i] = 8;
        else if (marks[i] > 60 && marks[i] <= 70)
        grade[i] = 7;
        else if (marks[i] > 50 && marks[i] <= 60)
        grade[i] = 6;
        else if (marks[i] > 40 && marks[i] <= 50)
        grade[i] = 5;
        else
        grade[i] = 0; }

for (int i=0; i<5; i++)
{   sum += (cr[i] * grade[i]);
    total += (cr[i] * 10);
}
sgpa = ((sum / total) * 10);
}
void display()
{ System.out.println("SGPA of " + name + " with usn "
                    + usn + " is " + sgpa);
}
}
```

```
class Student Main
{ public static void main( String args[ ])
  {
    Student s1: new student ();
     s1. get Details ();
     s1: calculate ();
     s1 . display ();
  }
}
```