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IBMI9CS061

1) Develop a java program to create a class Student with members USN, name, credits an array of credits and an array marks. Include methods to access & display details and a method to calculate SGPA of a studel

```java
import java.util.Scanner;
class Student
{
    private String USN;
    private String name;
    private int n;
    private double SGPA = 0;
    private int total Credits = 0;
    Scanner ss = new Scanner(System.in);

    void Details()
    {
        System.out.println("Enter USN of the students"
        USN = ss.nextline();
        System.out.println("Enter Name of student");
        name = ss.nextline();
        System.out.println("Enter no. of Subjects");
        n = ss.nextInt();
        int credits[] = new int[n];
        double marks[] = new double[n];
```

```
System.out.println("*** Enter details of Student");
for( int i = 0; i<n; i++)
{
    System.out.println("Enter credits added
    to the subject "+(i+1));
    credits [i] = ss.nextInt();
    System.out.println("Enter marks in
    the subject "+(i+1));
    marks [i] = ss.nextInt();

    Calculate( Credit[i], marks[i], i);
}
}

void Calculate(int credit, double mark, int i)
{
    totalCredits = totalCredits + credits;
    if( mark >= 90 && mark <=100)
    SGPA = SGPA + (10* credit);
    else if( mark >= 80 && mark <= 89)
    SGPA = SGPA +(9* credit);
    else if( mark >= 70 && mark <= 79)
    SGPA = SGPA + (8* credit);
    else if( mark >= 60 && mark <= 69)
    SGPA = SGPA + (7* credit);
```

```java
        else if (marks >= 50 && mark <= 59)
            SGPA = SGPA + ( 6 * Credit);
        else if ( mark >= 40 && mark <= 49)
            SGPA = SGPA + ( 5 * Credit);
        else
            System.out.println(" failed in subject"
                                ,(j +1));
}

void Display ()
{
    System.out.println(" Details of the Student ");
    System.out.println(" USN: " + USN );
    System.out.println(" Name :" + name);
    System.out.println(" SGPA of student " +(SGPA/
                                            total Credit));
}
}

class Main
{
    public static void main( String args[])
    {
        Student s1 = new Student ();
        s1. Details ();
        s1. Display ();
    }
}
```