Program ②

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

```java
import java.util.Scanner;

class Student {
    Scanner sc = new Scanner (System.in);
    String USN;
    String Name;
    int credits[] = new int [5];
    float marks[] = new float [5];
    int points[] = new int[5];
    float SGPA;
    int totalCredits = 0;

    void input details () {
        System.out.println ("Enter USN:");
        USN = sc.nextline ();
        System.out.println ("Enter name!");
        Name = sc.nextline ();
        for (int i = 0; i<5; i++)
        {
            System.out.println ("Enter Credits for subjects" +
                                 (i+1) + ":");
```

```java
        credits [i] = sc.nextInt ();
        totalcredits += credits [i] ;
        System.out.println ("Enter marks for subject " + (i+1)
                                    + ": ");

        marks [i] = sc.nextFloat ();
    }
}

void outputdetails ()
{
    System.out.println ("Student USN:" + USN);
    System.out.println ("Enter student name:" + Name);
    for (int i=0; i<5; i++)
    {
        System.out.println ("Subject " + (i+1) + " - Credits : +
                            credits [i] + " Marks " +
                            marks [i] );
    }
    System.out.println (" SGPA of " + Name + " is: " +
                            (float) ( SGPA /totalcredits));
}

void calc()
{
    for (int i=0; i<5 ; i++)
    {
        if (marks [i] >100 ) {
            System.out.println ("ERROR! marks above 100");
            return;
        }
    }
}
```

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```java
        else if (marks[i] >= 90)
        { points[i] = 10;
        }
        else if (marks[i] >= 80)
        { points[i] = 9;
        }
            else if (marks[i] >= 70)
            { point[i] = 8;
            }
              else if (marks[i] >= 60)
              { points[i] = 7;
              }
                else if (marks[i] >= 50)
                { points[i] = 5;
                }
                  else if (marks[i] >= 40)
                  { points[i] = 4;
                  }
                    else {
                        points[i] = 0;
                    }
        SGPA += (points[i] + credits[i]);
        }
    }
}


public class Prog2 {
    public static void main (string[] )
```

```
{
    Student stu1 = new Student ();
    stu1. inputdetails ();
    stu1. calc ();
    stu1 . outputdetails ();
}
}
```