

```

162) import java.util. Scanner;
class Student {
    private String usn;
    private String name;
    private int[] credits = new int[5];
    private double int[] marks = new double[5];
    private int n=0;
    private int total-credits=0;
    private float total=0f;
    private float sgpa =0f;
    private int[] p% = new int[5];
    Scanner s = new Scanner(System.in);

```

```
Student() {  
    usn = " ";  
    name = " ";  
}
```

```
Student (String eusn, String ename, double[] emarks,  
int[] credit)  
{  
    usn = eusn;  
    name = ename;  
    marks = emarks;  
    credit = credit;  
}
```



```
public void get-details()
```

```
{  
    System.out.println("Enter the usn of  
    student:");
```

```
    usn = S.next();
```

```
    System.out.println("Enter the name of  
    student:");
```

```
    name = S.next();
```

```
    System.out.println("Enter the number of  
    subjects:");
```

```
    n = S.nextInt();
```

```
    marks = new Doubleint[n];
```

```
    credit = new int int[n];
```

```
    for (int i=0; i<5; i++)
```

```
{
```

```
    System.out.println("Enter the marks  
    of subject" + (i+1) + " (for 100):");
```

```
    marks[i] = S.nextDoubleint();
```

```
    System.out.println("Enter the credits  
    for subject" + (i+1) + ":");
```

```
    credit[i] = S.nextInt();
```

```
}
```

```
}
```



public float compute-sgpa()

~~p = new int[5];~~  
for (int i=0; i<~~5~~<sup>5</sup>; i++)

{

total-credits += credit[i];

}

for (int i=0; i<~~5~~<sup>5</sup>; i++)

{

if (marks[i] ≥ 90)

p[i] = 10;

else if (marks[i] ≥ 80)

p[i] = 9;

else if (marks[i] ≥ 70)

p[i] = 8;

else if (marks[i] ≥ 60)

p[i] = 7;

else if (marks[i] ≥ 50)

p[i] = 6;

else if (marks[i] ≥ 40)

p[i] = 5;

else

p[i] = 0;

}

for (int i=0; i<~~5~~<sup>5</sup>; i++)

{

total += p[i] \* credit[i];

}

sgpa = total / total-credits;

return sgpa;

}

public void display-details()

sgpa = compute-sgpa(); System.out.println("Student details:");  
System.out.println("Student usn: " + usn);  
System.out.println("Student name: " + name);



Date / /

```

        System.out.println("Marks    Credits");
        for (int i=0; i<n; i++)
        {
            System.out.println(marks[i] + " " + credits[i]);
        }
        System.out.println("Student sgpa: " + sgpa);
    }
}

```

```

public class lab2 {
    public static void main (String args[])
    {
        double[] marks = {100, 100, 100, 100, 100};
        int[] credit = {4, 4, 4, 4, 4};
        Student s1 = new Student();
        s1.get-details();
        s1.display-details();
        Student s2 = new Student("IBM19CS004", "Adithi", marks,
                                   credit);
        s2.display-details();
    }
}

```