

16-10-24

LAB-2

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.

→ import java.util.Scanner;

class student {

String usn, name;

int m[] = new int[8];

int c[] = new int[8];

int g, es, tc;
~~marks sgpa~~

Scanner s = new Scanner(System.in);

void details() {

System.out.println("Enter usn: ");

usn = s.next();

System.out.println("Enter name: "); name = s.next();

System.out.println("Enter marks: ");

for (int i = 0; i < 8; i++) {

m[i] = s.nextInt();

}

System.out.println("Enter credits for 8 subjects: ");

for (int i = 0; i < 8; i++) {

c[i] = s.nextInt();

}

}

void display() {

System.out.println("USN = " + " " + usn);

System.out.println("Name = " + " " + name);

System.out.println("Marks: ");

```
for (int i=0; i<8; i++) {
    system.out.println("Mark " + " " + (i+1) +
        " = " + m[i]);
}
```

```
}
void sgpa calc() {
    system.out.println("usn= " + " " + usn);
    for (int i=0; i<8; i++) {
        g = (m[i]/10) ++;
        if (m[i]/10 m[i] == 100)
        {
            g = m[i]/10;
        }
        else
        {
            g = (m[i]/10 + 1);
        }
        es += g * c[i];
        tc += c[i];
    }
    sgpa = (double)es / (double)tc;
    system.out.println(sgpa);
}
```

```
}
class Test run {
```

```
    public static void main (String [] args) {
        student st[] = new student[8];
        for (int i=0; i<8; i++) {
            st[i] = new student();
        }
```

```
        for (int j=0; j<8; j++) {
            system.out.println("enter details " + " " +
                (j+1) + " student: ");
        }
```

```

        s[k].details();
    }
    for (int k=0; k<8; k++) {
        System.out.println("Details of " + (k+1) +
            " student: ");
        s[k].display();
    }
    for (int i=0; i<8; i++) {
        System.out.println("SGPA of " + (i+1) +
            " student: ");
        s[i].sgpaCalc();
    }
}
}
}

```

OP

Enter the details of 1 student:

Enter usn:

1BM23CS900

Enter name:

And

Enter marks:

65

53

14

66

75

64

64

52

Enter the credits for 8 subjects:

4

4

3

3

~~LAB 3~~

Mangal

Date _____

Page _____

1

1

1

sgpa of 1 student:

USN = IBM23CS900

Pass 6.15

~~12~~

~~16/10/24~~