

Practise set week-4

Lab program 2

import java.util.\*;

✓ public class SGPA {

class Student {

```

{
private String name;
private String USN;
private int n;
private int totalCredits = 0;
private int SGPA = 0;

```

void calculate ()

{

```

④ Scanner sc = new Scanner(System.in);
System.out.println("Enter the name of student::");
name = sc.nextLine();
System.out.println("Enter USN");
USN = sc.nextLine();
System.out.println("Enter the number of subjects");
n = sc.nextInt();
int marks[] = new int[n];
int SGPA
int credit[] = new int[n];
for (i=0; i<n; i++) {
System.out.println("Enter the marks of sub"+(i+1));
mark[i] = new int[] sc.nextInt();
System.out.println("Enter the credits of sub"+(i+1));
credit[i] = sc.nextInt();
} function(marks, credit, i);

```

3

```
void function (int marks, int credit, int j)
```

```
{
```

```
    total credits = total credits + credit;
```

```
    if (marks >= 90 && marks <= 100)
```

```
        SGPA = SGPA + (10 * credit);
```

```
    elseif (marks >= 80 && marks <= 89)
```

```
        SGPA = SGPA + (9 * credit);
```

```
    else if (marks >= 70 && marks <= 79)
```

```
        SGPA = SGPA + (8 * credit);
```

```
    else if (marks >= 60 && marks <= 69)
```

```
        SGPA = SGPA + (7 * credit);
```

```
    else if (marks >= 50 && marks <= 59)
```

```
        SGPA = SGPA + (6 * credit);
```

```
    elseif (marks >= 40 && marks <= 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.print("Name:" + name);
```

```
    system.out.println("ID USN:" + USN);
```

```
    system.out.println("SGPA of student" + (SGPA/total credit));
```

```
}
```

```
class SGPA
```

```
{
```

```
    public static void main (String args[])
```

```
{
```

```
        student s1 = new student ();
```



```
import java.util.*;
class Student{
    private String USN;
    private String name;
    private int n;
    private double SGPA = 0;
    private int totalCredits = 0;
    Scanner ss = new Scanner(System.in);
    void Details()
    {
        System.out.println("Enter USN of the student");
        USN = ss.nextLine();
        System.out.println("Enter Name of the 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 the subjects:");
        for(int i=0;i<n;i++)
        {
            System.out.println("Enter credits allotted to the subject "+(i+1));
            credits[i] = ss.nextInt();
            System.out.println("Enter marks in the subject "+(i+1));
            marks[i] = ss.nextInt();
            Calculate(credits[i],marks[i],i);
        }
    }
}
```



```

void Calculate(int credit,double mark,int j)
{
    totalCredits = totalCredits + credit;
    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);
    else if(mark>=50 && mark<=59)
        SGPA =
        SGPA + (6*credit);
    else if(mark>=40&&mark<=49)
        SGPA = SGPA +
        (5*credit);
    else
        System.out.println("Failed in ubject "+(j+1));
}

```

```

void Display()
{

```

```

    System.out.println("Details of the Student");

```

```

    ("Name :"+name);

```

```

    System.out.println("USN: "+USN);

```

```

    System.out.println("SGPA of student "+(SGPA/totalCredits));

```

```

}

```

```

    System.out.println

```



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

```
C:\Users\cw\Desktop>java main
Error: Could not find or load main class main
```

```
C:\Users\cw\Desktop>java Main
Enter USN of the student
1bm19cs015
Enter Name of the student
amit
Enter no of subjects
5
Enter details of the subjects:
Enter credits allotted to the subject 1
45
Enter marks in the subject 1
89
Enter credits allotted to the subject 2
45
Enter marks in the subject 2
78
Enter credits allotted to the subject 3
50
Enter marks in the subject 3
90
Enter credits allotted to the subject 4
34
Enter marks in the subject 4
78
Enter credits allotted to the subject 5
34
Enter marks in the subject 5
56
Details of the Student
Name :amit
USN: 1bm19cs015
SGPA of student 8.370192307692308
```

```
C:\Users\cw\Desktop>
```