

```

lab2.java - Notepad
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import java.util.*;
class Student
{
    private int n, credit[], gp[];
    private String name, usn;
    double sum, sgpa, marks[];

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

    void accept()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the number of the subjects:");
        n=sc.nextInt();
        credit=new int[n+1];
        marks=new double[n+1];
        System.out.println("enter usn and name of the student ");
        usn=sc.next();
        name=sc.next();

        System.out.println("enter credit and marks in each subject");
        for(int i =1;i<=n;i++)
        {
            System.out.println("enter subject "+i+" credit and marks");
            credit[i]=sc.nextInt();
            marks[i]=sc.nextDouble();
        }
    }

    void calculate()

```



```
marks[i]=sc.nextDouble();
    }
}

void calculate()
{
    gp=new int[n+1];
    int cre=0;
    for(int i=1;i<=n;i++)
    {
        if(marks[i]>=90)
            gp[i]=10;
        else if (marks[i]>=80&&marks[i]<90)
            gp[i]=9;
        else if (marks[i]>=70&&marks[i]<80)
            gp[i]=8;
        else if (marks[i]>=60&&marks[i]<70)
            gp[i]=7;
        else if (marks[i]>=50&&marks[i]<60)
            gp[i]=5;
        else if (marks[i]<50)
            gp[i]=0;
        sum=(double)(credit[i]*gp[i])+sum;
        cre=cre+credit[i];
    }
    sgpa=sum/cre;
}

void display()
{
    System.out.println("usrn:"+usrn+" name:"+name);
    for(int i=1;i<=n;i++)
        System.out.println("marks:"+marks[i]+" grade points:"+gp[i]);
    System.out.printf("sgpa=%.2f",sgpa);
}
```



```

        else if (marks[i]>=50&&marks[i]<60)
            gp[i]=5;
        else if (marks[i]<50)
            gp[i]=0;
        sum=(double)(credit[i]*gp[i])+sum;
        cre=cre+credit[i];
    }
    sgpa=sum/cre;
}

void display()
{
    System.out.println("usn:"+usn+" name:"+name);
    for(int i=1;i<=n;i++)
        System.out.println("marks:"+marks[i]+" grade points:"+gp[i]);
    System.out.printf("sgpa=%.2f",sgpa);
}

```

```

class Studentmain
{
    public static void main(String[] args)
    {
        Student s1=new Student();
        s1.accept();
        s1.calculate();
        s1.display();
    }
}

```



```
public static void main(String[] args)  
or a JavaFX application class must extend
```

```
C:\Users\User\Desktop>java Studentmain  
enter the number of the subjects:
```

```
5  
enter usn and name of the student  
1bm19cs050 disha  
enter credit and marks in each subject  
enter subject 1 credit and marks
```

```
3 98  
enter subject 2 credit and marks
```

```
4 92  
enter subject 3 credit and marks
```

```
4 78  
enter subject 4 credit and marks
```

```
5 67  
enter subject 5 credit and marks
```

```
3 90  
usn:1bm19cs050 name:disha
```

```
marks:98.0 grade points:10  
marks:92.0 grade points:10
```

```
marks:78.0 grade points:8  
marks:67.0 grade points:7
```

```
marks:90.0 grade points:10  
sgpa=8.79
```

```
C:\Users\User\Desktop>
```