

LAB - 2

```
import java.util.Scanner;
class student{
    private int cred[],tc =0;
    private double mark[],cal[],sum=0,sgpa,num[];
    private String name,usn;

    void accept()
    {
        System.out.println("enter student details");
        Scanner s1 = new Scanner(System.in);
        System.out.println("enter name:");
        name = s1.nextLine();
        System.out.println("enter USN:");
        usn = s1.nextLine();
        mark = new double[5];
        cred = new int[5];
        cal = new double[5];
        for(int i=0;i<5;i++){
            System.out.println("Enter mark["+i+"]:");
            mark[i] = s1.nextDouble();
        }
        for(int i=0;i<5;i++){
            System.out.println("Enter cred["+i+"]:");
            cred[i] = s1.nextInt();
        }
    }
    void display()
    {
        System.out.println("name:"+name);
        System.out.println("usn:"+usn);
        System.out.println("Marks of student are:");
        for(int i =0 ;i<5;i++){
            System.out.println(mark[i]);
        }
    }
    void calculate()
    {
        num = new double[5];
        for(int i = 0 ;i<5;i++){
            if(mark[i]>100){
                System.out.println("invalid marks");
            }
            else if( mark[i] >= 90){
                num[i]=10;
            }
        }
    }
}
```

```

        else if( mark[i] >= 80 && mark[i] <90)
        {
            num[i]=9;
        }
        else if( mark[i] >= 70 && mark[i] <80 ){
            num[i]=8;
        }
        else if( mark[i] >= 60 && mark[i] <70){
            num[i]=7;
        }
        else if( mark[i] >= 50 && mark[i] <60){
            num[i]=5;
        }
        else if( mark[i] >= 40 && mark[i] <50){
            num[i]=4;
        }
        else{
            num[i] = 0;
        }
        cal[i] = num[i] *cred[i];
        sum = sum + cal[i];
        tc = tc + cred[i];
    }
    sgpa = sum/tc;
    System.out.println("sgpa:"+ sgpa);
}
}
public class Main
{
    public static void main(String args[]){
        student obj = new student();
        obj.accept();
        obj.display();
        obj.calculate();

    }
}

```

enter student details

enter name:

jayanti

enter USN:

1BM19CS067

Enter mark[0]:

90

Enter mark[1]:

87

Enter mark[2]:

92

Enter mark[3]:

80

Enter mark[4]:

87

Enter cred[0]:

5

Enter cred[1]:

4

Enter cred[2]:

4

Enter cred[3]:

3

Enter cred[4]:

3

name:jayanti

usn:1BM19CS067

Marks of student are:

90.0

87.0

92.0

80.0

87.0

sgpa:9.473684210526315

...Program finished with exit code 0

Press ENTER to exit console.