

## Lab 2:Student sgpa

```
import java.util.*;

class Student
{
    private String USN;
    private String name;
    private int n;
    private double SGPA = 0;
    private int totalCredits = 0;
    private int credits[];
    private double marks[];

    Scanner in = new Scanner(System.in);

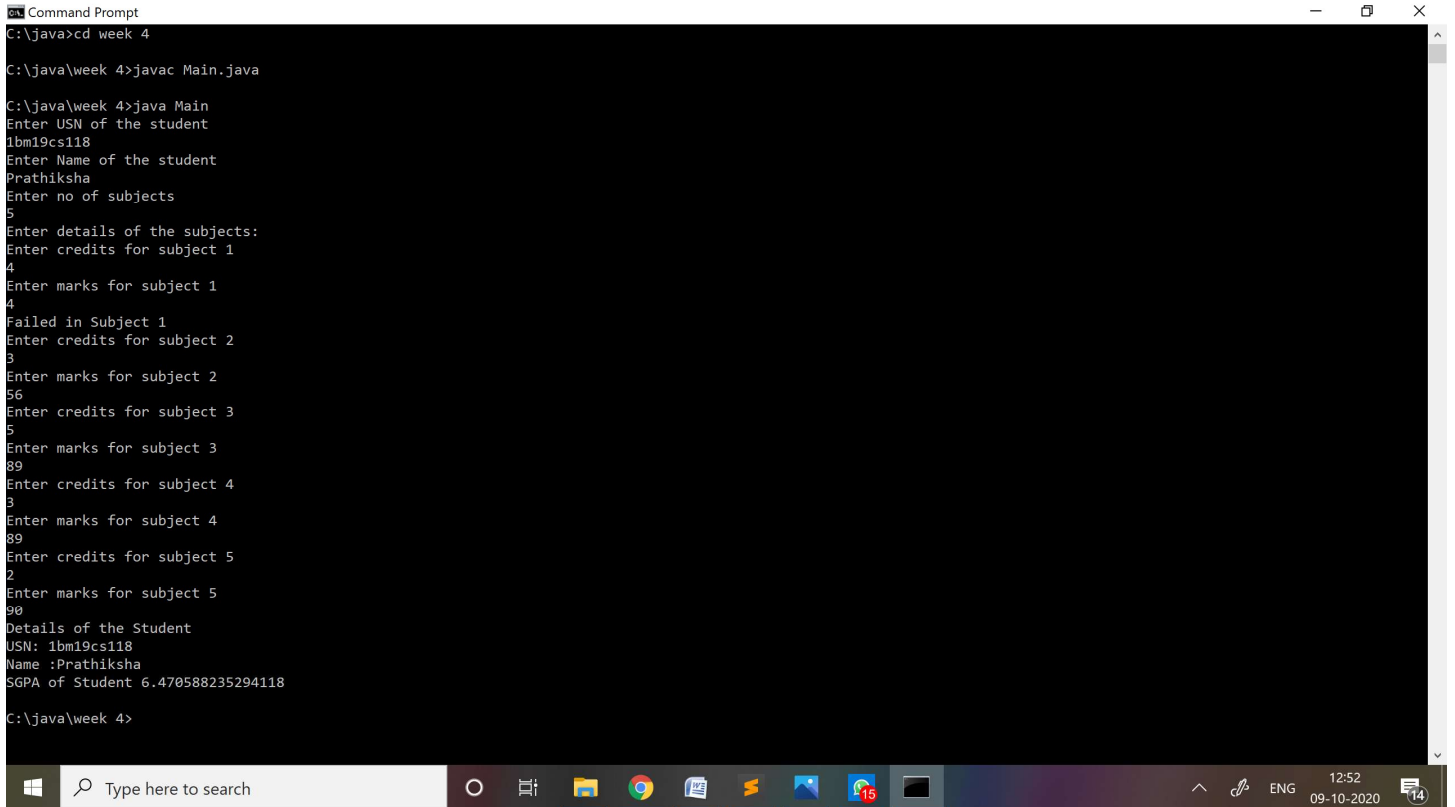
    void accept()
    {
        System.out.println("Enter USN of the student");
        USN = in.nextLine();
        System.out.println("Enter Name of the student");
        name = in.nextLine();
        System.out.println("Enter no of subjects");
        n = in.nextInt();
        credits = new int[n];
        marks = new double[n];
        System.out.println("Enter details of the subjects:");
        for(int i=0;i<n;i++)
        {
            System.out.println("Enter credits for subject "+(i+1));
            credits[i] = in.nextInt();
            System.out.println("Enter marks for subject "+(i+1));
            marks[i] = in.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 Subject "+(j+1));  
}
```

```
void Display()  
{  
    System.out.println("Details of the Student");  
    System.out.println("USN: "+USN);  
    System.out.println("Name :"+name);  
    System.out.println("SGPA of Student "+(SGPA/totalCredits));  
}  
}
```

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



```
Command Prompt  
C:\java>cd week 4  
  
C:\java\week 4>javac Main.java  
  
C:\java\week 4>java Main  
Enter USN of the student  
1bm19cs118  
Enter Name of the student  
Prathiksha  
Enter no of subjects  
5  
Enter details of the subjects:  
Enter credits for subject 1  
4  
Enter marks for subject 1  
4  
Failed in Subject 1  
Enter credits for subject 2  
3  
Enter marks for subject 2  
56  
Enter credits for subject 3  
5  
Enter marks for subject 3  
89  
Enter credits for subject 4  
3  
Enter marks for subject 4  
89  
Enter credits for subject 5  
2  
Enter marks for subject 5  
90  
Details of the Student  
USN: 1bm19cs118  
Name :Prathiksha  
SGPA of Student 6.470588235294118  
  
C:\java\week 4>
```