

## LAB PROGRAM 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 of a student.

```
import java.util.*;

class Student {

    private String usn;

    private String name;

    private int cred[];

    private int marks[];

    private int n;

    void accept()

    {

        Scanner s=new Scanner(System.in);

        System.out.println("Enter student details");

        System.out.println("USN of the student:");

        usn=s.next();

        System.out.println("Name of student:");

        name=s.next();

        System.out.println("Enter the number of subjects:");

        n=s.nextInt();

        cred=new int[n];

        marks=new int[n];

        System.out.println("Enter credits and marks attained by the student in each subject(out of 100)");

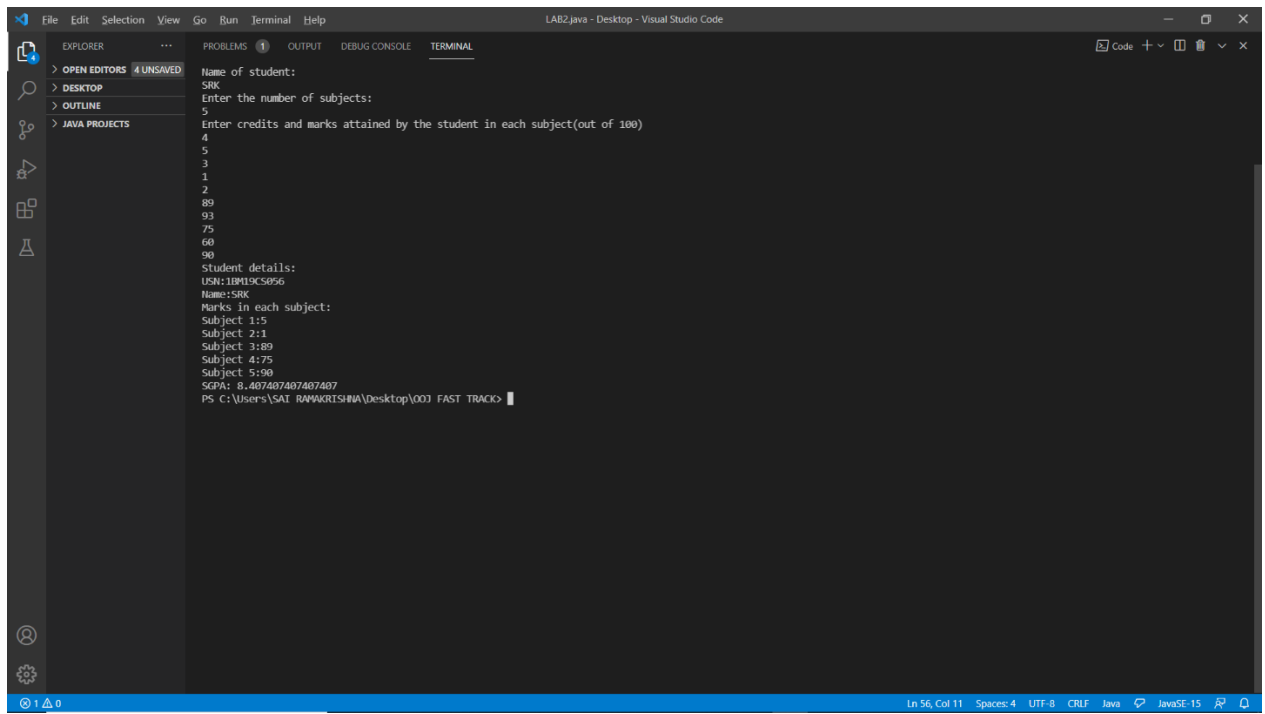
        for(int i=0;i<n;i++)
```

```
{
cred[i]=s.nextInt();
marks[i]=s.nextInt();
}
}

void display()
{
System.out.println("Student details:");
System.out.println("USN:"+usn);
System.out.println("Name:"+name);
System.out.println("Marks in each subject:");
for(int i=0;i<n;i++)
{
System.out.println("Subject "+(i+1)+":"+marks[i]);
}
}

double calculate()
{
int tcp=0,tc=0;
for(int i=0;i<n;i++)
{
tc=tc+cred[i];
if(marks[i]>=50)
{
tcp=tcp+(((marks[i]/10)+1)*cred[i]);
}
}
```

```
else if(marks[i]>=40 && marks[i]<50)
{
tcp=tcp+(4*cred[i]);
}
}
return (double)tcp/tc;
}
}
class LAB2
{
public static void main(String ss[]) {
Student s1=new Student();
s1.accept();
s1.display();
System.out.println("SGPA: "+s1.calculate());
}
}
```



LAB2.java - Desktop - Visual Studio Code

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EXPLORER 4 UNSAVED

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PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

```
Name of student:
SRK
Enter the number of subjects:
5
Enter credits and marks attained by the student in each subject(out of 100)
4
5
3
1
2
89
93
75
60
90
Student details:
USN:18PML2CS096
Name:SRK
Marks in each subject:
Subject 1:5
Subject 2:1
Subject 3:89
Subject 4:75
Subject 5:90
SGPA: 8.407407407407407
PS C:\Users\SAT RAMAKRISHNA\Desktop\003 FAST TRACK>
```

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