

LAB 2

```
import java.util.Scanner;
```

```
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();
```

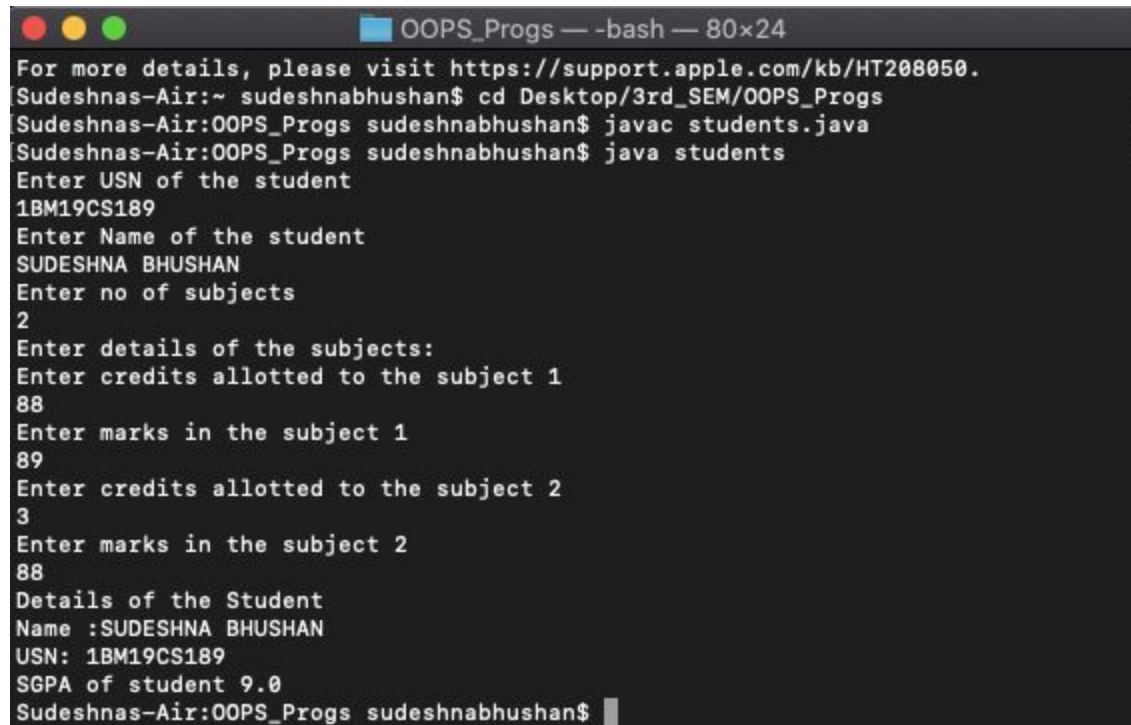
```

    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 subject "+(j+1));
}
void Display()
{
    System.out.println("Details of the Student");
    System.out.println("Name :"+name);
    System.out.println("USN: "+USN);
    System.out.println("SGPA of student "+(SGPA/totalCredits));
}
}

public class students
{

```

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

A terminal window titled "OOPS_Progs — -bash — 80x24" showing the execution of a Java program. The user navigates to the directory "Desktop/3rd_SEM/OOPS_Progs" and compiles "students.java" using "javac". Then, they run "java students". The program prompts for student details: USN (1BM19CS189), Name (SUDESHNA BHUSHAN), number of subjects (2), and details for two subjects (credits and marks). Finally, it displays the student's details, including Name, USN, and SGPA (9.0).

```
OOPS_Progs — -bash — 80x24
For more details, please visit https://support.apple.com/kb/HT208050.
Sudeshnas-Air:~ sudeshnabhushan$ cd Desktop/3rd_SEM/OOPS_Progs
Sudeshnas-Air:OOPS_Progs sudeshnabhushan$ javac students.java
Sudeshnas-Air:OOPS_Progs sudeshnabhushan$ java students
Enter USN of the student
1BM19CS189
Enter Name of the student
SUDESHNA BHUSHAN
Enter no of subjects
2
Enter details of the subjects:
Enter credits allotted to the subject 1
88
Enter marks in the subject 1
89
Enter credits allotted to the subject 2
3
Enter marks in the subject 2
88
Details of the Student
Name :SUDESHNA BHUSHAN
USN: 1BM19CS189
SGPA of student 9.0
Sudeshnas-Air:OOPS_Progs sudeshnabhushan$
```