

# LAB 2

```
import java.util.*;

public class Student_details{

    public static void main(String args[]) {

        Student s1=new Student();

        s1.getDetails();

        s1.printDetails();

        s1.getSGPA();

    }

}

class Student{

    int usn;

    String name;

    Scanner sc=new Scanner(System.in);

    double sgpa;

    int n;

    int credits[];

    int marks[];

    void getDetails() {

        System.out.println("Enter number of subject");

        n=sc.nextInt();

        credits=new int[n];

        marks=new int[n];

    }

}
```

```
System.out.println("Enter usn");

    usn=sc.nextInt();

    System.out.println("Enter name");

    name=sc.next();


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

        System.out.println("Enter subject credits");

        credits[i] = sc.nextInt();

    }

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

        System.out.println("Enter subject marks");

        marks[i] = sc.nextInt();

    }

}

void printDetails() {

    System.out.println("usn "+usn);

    System.out.println("name is "+name );

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

        System.out.println("credits of the subject " +credits[i]);

    }

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

        System.out.println("marks of the subject " +marks[i]);

    }

}

void getSGPA() {
```

```
double sum=0,total=0;
for(int i=0;i<n;i++)
{
    sum=sum+credits[i];
    if(marks[i]>=90)
    {
        total=total+(10*credits[i]);

    }
    else if(marks[i]>=80)
    {
        total=total+(9*credits[i]);

    }
    else if(marks[i]>=70)
    {
        total=total+(8*credits[i]);

    }
    else if(marks[i]>=60)
    {
        total=total+(7*credits[i]);

    }
    else if(marks[i]>=50)
    {
        total=total+(5*credits[i]);
```

```
    }  
    else if(marks[i]>=40)  
    {  
        total=total+(4*credits[i]);  
  
    }  
    else  
    {  
        total=total+(0*credits[i]);  
  
    }  
  
    }  
    sgpa=total/sum;  
    System.out.println("Sgpa = "+sgpa);  
}  
  
}
```

```
D:\JAVA>javac Student_details.java
```

```
D:\JAVA>java Student_details
```

```
Enter number of subject
```

```
2
```

```
Enter usn
```

```
1
```

```
Enter name
```

```
Mohit
```

```
Enter subject credits
```

```
3
```

```
Enter subject credits
```

```
4
```

```
Enter subject marks
```

```
80
```

```
Enter subject marks
```

```
70
```

```
usn 1
```

```
name is Mohit
```

```
credits of the subject 3
```

```
credits of the subject 4
```

```
marks of the subject 80
```

```
marks of the subject 70
```

```
Sgpa = 8.428571428571429
```