

19/12/23

## LAB-02

4

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

```
class Subject
```

```
{
```

```
    int subject marks;
```

```
    int credits;
```

```
    int grades;
```

```
}
```

```
class student
```

```
{
```

```
    Subject subject [8];
```

```
    String name;
```

```
    String usn;
```

```
    double sgpa = 0;
```

```
    Scanner s;
```

```
    student ()
```

```
    {
```

```
        int i;
```

```
        Subject = new Subject[8];
```

```
        for (i = 0; i < 8; i++)
```

```
            subject [i] = new subject ();
```

```
            s = new Scanner (System.in);
```

```
    }
```

```
    void get student details ()
```

```
    {
```

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

```
        name = s.next ();
```

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

```
        usn = s.next ();
```

```
    }
```

```
void get_marks ()
```

```
{
```

```
for (int i=0; i<8; i++)
```

```
{
```

```
    System.out.println("Enter marks for  
subject" + (i+1) + " ");
```

```
    subject[i].subjectMarks = s.nextInt();
```

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

```
    subject[i].credits = s.nextInt();
```

```
    subject[i].grade = (subject[i].subjectMarks
```

```
if (subject[i].grade > 11)
```

```
    subject[i].grade = 10;
```

```
if (subject[i].grade <= 4)
```

```
    subject[i].grade = 0;
```

```
}
```

```
}
```

```
void compute SGPA()
```

```
{
```

```
    int totalCredits = 0;
```

```
    for (int i=0; i<8; i++)
```

```
{
```

```
        sgpa += (subject[i].credits * subject[i].grade);
```

```
        totalCredits += subject[i].credits;
```

```
}
```

```
    sgpa = sgpa / totalCredits;
```

```
}
```

```
}
```

```
class main
```

```
{
```

```
    public static void main (String args[])
```

```
{
```

```
        student st = new student ();
```



```

12: get student details (7)
13: get marks (7)
14: compute SGPA (7)
System.out.println("name:" + A1.name);
System.out.println("usr:" + A1.usn);
System.out.println("SGPA:" + A1.sgpa);
}
}

```

### output

Enter your name  
shashank

Enter your usn  
13m225256

Enter marks of subject 1  
94

Enter credits of subject 1  
4

Enter Marks of subject 2  
85

Enter credits of subject 2  
4

Enter marks of subject 3  
85

Enter credits of subject 3  
3

Enter marks of subject 4  
86

Enter credits of subject 4  
3

Enter marks of subject 5  
81

Enter credits of subject 5

3

Enter marks of subject 6

85

Enter Credits of subject 6

1

Enter marks of subject 7

95

Enter credits of subject 7

1

Enter marks of subject 8

98

Enter credits of subject 8

1

NAME : Shashank

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SEPA : 9.3

9

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