

19/12/23

```
import java.util.Scanner;  
class Subject
```

```
{  
    int SubjectMarks;  
    int Credits;  
    int grade;
```

```
}  
class Student
```

```
{  
    String name;
```

```
    String usn;
```

```
    double SGPA;
```

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

```
    Subject subject[];
```

```
    Student()  
}
```

```
int i;
```

```
subject = new Subject(a);
```

```
for (i=0; i<9; i++)
```

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

```
}
```

```
void getstudentdetails()
```

```
System.out.println("enter the name:");  
name=s.next();
```

```
System.out.println("enter the usn:");  
usn=s.next();
```

```
}
```

```
void getmarks()
```

```
for (int i = 0; i < 5; i++)
```

```
    System.out.println("enter the subject marks" +  
        (i + 1) + ":");
```

```
    subject[i].subjectmarks = s.nextInt();  
    if (subject[i].subjectmarks >= 90)
```

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

```
    } else if (subject[i].subjectmarks >= 80)
```

```
        subject[i].grade = 9;
```

```
    } else if (subject[i].subjectmarks >= 70)
```

```
        subject[i].grade = 8;
```

```
    } else if (subject[i].subjectmarks >= 60)
```

```
        subject[i].grade = 7;
```

```
    } else if (subject[i].subjectmarks >= 50)
```

```
        subject[i].grade = 6;
```

```
    } else if (subject[i].subjectmarks >= 40)
```

```
        subject[i].grade = 5;
```

```
} else
```

```
        subject[i].grade = 0;
    }
    system.out.println("enter the credits of the
    subject" + (i + 1) + ";");
    Subject[i].credits = s.nextInt();
}

void computesgpa()
{
    int totalCredits = 0;
    int totalCreditHours = 0;
    for (int i = 0; i < 8; i++)
    {
        totalCredits += (subject[i].grade * subject[i].credits);
        totalCreditHours += (subject[i].credits);
    }
    sgpa = (double) totalCredits / totalCreditHours;
    System.out.println("SGPA: " + sgpa);
}

class studentMain
{
    public static void main (String args[])
    {
        student s1 = new student ();
        s1.getStudentDetails();
        s1.getmarks();
        s1.computesgpa();
    }
}
```

output:

enter the name:

Rani Ashwarya

Enter the USN:

IBM22CS217

Enter the subject marks of subject 1

90

enter the credits of the subject 1

11

enter the subject marks of subject 2

87

enter the credits of subject 2

4

enter the subject marks of subject 3

76

enter the credits of subject 3

3

enter the subject marks of subject 4

92

enter the credits of subject 4

1

enter the subject marks of subject 5

89

enter the credits of subject 5

3

enter the subject marks of subject 6

78

enter the credits of subject 6

1

enter the subject marks of subject 7

67

enter the credits of subject 7

enter the subject marks of subject 8;

87

enter the credits of subject 8)

1

SGPA: 8.75

~~8
11.2/3~~