

19/12/23

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

```
{
```

```
    int subjectmarks;
```

```
    int credits;
```

```
    int grade;
```

```
}
```

```
class student
```

```
{
```

```
    subject subject[];
```

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

```
    String name;
```

```
    String usn;
```

```
    double gpa = 0;
```

```
    student()
```

```
{
```

```
    int i;
```

```
    subject = new subject(9);
```

```
    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 < 8; i++)

{

System.out.println("Enter the subject marks of the subject " + (i+1) + " : ");

subject[i].subjectmarks = s.nextEnt();

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;

}

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```

system.out.println("Enter the credits of the
subject " + (i+1) + " : ");
subject[i].credits = s.nextInt();
}
}

```

```

void compute sgpa()
{

```

```

    int total credits = 0;
    int total credit hours = 0;
    for (int i = 0; i < 8; i++)
    {

```

```

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

```

```

        total credit hours += (subject[i].credits);
    }

```

```

    sgpa = (double) total credits / total credit hours;
    system.out.println("SGPA: " + sgpa);
}
}

```

```

class StudentMain
{

```

```

    public static void main (String args[])
    {

```

```

        Student s1 = new Student();

```

```

        s1.getStudentDetails();

```

```

        s1.getMarks();

```

```

        s1.compute sgpa();
    }
}

```

Output:

Enter the name:

Rushila V

Enter the usn

10M22CS226

Enter the subject marks of the subject 1

93

Enter the credits of the subject 1

4

Enter the subject marks of the subject 2

94

Enter the credits of subject 2:

4

Enter the subject marks of subject 3:

91

Enter the credits of subject 3:

3

Enter the subject marks of subject 4:

88

Enter the credits of subject 4:

1

Enter the subject marks of subject 5:

94

Enter the credits of the subject 5:

3

Enter the subject marks of subject 6:

92

Enter the credits of subject 6:

1

Enter the subject marks of subject 7:

87

Enter the credits of subject 7:

3

Enter the subject marks of subject 8

96 Enter the credits of subject 8: 1 SGPA: 9.8

9.8
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