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USN → IBM22CS210

classmate

Date _____

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LAB 2

```
import java.util.Scanner;  
class Subject {  
    int getSubjectMarks;  
    int credits;  
    int grade;  
}
```

```
class Student {  
    Scanner s = new Scanner(System.in);  
    Subject subject[] = new Subject[8];  
    String name, usn;  
    double sgpa;  
    Student()  
    {  
        for(int i=0; i<8; i++)  
        {  
            subject[i] = new Subject();  
        }  
    }  
    void getStudentDetails()  
    {  
        System.out.print("Enter student's name:");  
        name = s.nextLine();  
    }  
}
```

```
System.out.print("Enter student's name :");  
name = s.nextLine();
```

{}

```
void getMarks()
```

{

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

```
System.out.println("Subject " + (i+1));
```

```
System.out.print("Enter marks :");
```

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

```
System.out.print("Enter credits :");
```

~~```
subject[i].credits = s.nextInt();
```~~~~```
int t = subject[i].subject / 10;
```~~

```
if (t < 4) {
```

```
t = 0;
```

```
}
```

```
t = t + 1;
```

```
if (t > 10) {
```

```
t = 10;
```

```
}
```

```
subject[i].credits = t;
```

{}

```
void computeSGPA()
{
    int tg = 0;
    int tc = 0;
    for(int i=0; i<8; i++)
    {
        tc += subject[i].credits;
        tg += subject[i].grade * subject[i].credits;
    }
}
```

```
sgpa = tg / (tc + 1.0);
System.out.println("Your SGPA is " + sgpa);
```

```
public class StudentDemo
```

~~```
public static void main(String args[])
{
```~~~~```
    Student s1 = new Student();
```~~~~```
 s1.getStudentDetails();
```~~~~```
    s1.getMarks();
```~~~~```
 s1.computeSGPA();
```~~~~```
}
```~~

Output:

Enter student's name: Priyanshu

Enter student's usn: 1BM22CS210

Subject 1

Enter marks: 81

Enter credits: 4

Subject 2:

Enter marks: 77

Enter credits: 3

Subject 3:

Enter marks: 82

Enter credits: 1

Subject 4:

Enter marks: 89

Enter credits: 4

.

Subject 8:

Enter marks: 100

Enter credits: 3

Your SGPA is 8.25.