

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

```
class Student {  
    String usn;  
    String name;  
    int credits[];  
    int marks[];  
    int n;  
};
```

```
void accept()
```

```
{  
    Scanner s = new Scanner(System.in);  
    System.out.println("Enter student details");  
    System.out.println("USN:");  
    usn = s.next();  
    System.out.println("Name");  
    System.out.println("Enter no of sub");  
    s n = s.nextInt();  
    credits = new int[n];  
    marks = new int[n];  
    for (int i = 0; i < n; i++)  
    {  
        System.out.println("Student details:");  
        System.out.println("USN:" + usn);  
    }
```

```
    System.out.println("Marks in each subject:");
```

```
    for (int i = 0; i < n; i++) {  
        System.out.println("Subject " + (i+1) + ": " +  
            marks[i]);  
    }
```

```
}
```

```
double calculate ( )
```

```
{
    int tcp=0, tc=0;
```

```
    for(int i=0, i<n; i++)
```

```
        tc=tc+credits[i];
```

```
        if (marks[i]>=50)
```

```
        {
            tcp=tcp+(((marks[i]/10)+1)*credits[i]);
```

```
        }
        else if (marks[i]>=40 && marks[i]<50)
```

```
        {
            tcp=tcp+(4*credits[i]);
```

```
        }
        return (double)tcp/tc;
```

```
}
```

```
class Studentgpa
```

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

```
        Student s1= new Student();
```

```
        s1.accept();
```

```
        s1.display();
```

```
        System.out.println("SGPA: "+s1.calculate
```

```
        ());
```

```
    }
```