

Q2) SGPA

```
import java.util;  
class student  
{  
    String usn, name;  
    String int, credits[];  
    static double marks[];  
    void student Input (int n)  
    {  
        Scanner sc = new Scanner (System.in);  
        System.out.println("Enter usn and name");  
        usn = sc.nextLine();  
        name = sc.nextLine();  
        System.out.println("Enter marks along with credits");  
        for (int i=0; i<n; i++)  
        {  
            marks[i] = sc.nextDouble();  
            credits[i] = sc.nextInt();  
            System.out.println();  
        }  
    }  
    double calculate (int n)  
    {  
        int c, ccred=0;  
        double tot, total=0.0;
```

```

for (int i=0; i<n; i++)
{
    tot = marks [i];
    if (tot >= 90)
        C = 10;
    else if (total >= 80)
        C = 9;
    else if (tot >= 70)
        C = 8;
    else if (tot >= 60)
        C = 7;
    else if (tot >= 50)
        C = 6;
    else if (tot >= 40)
        C = 4;
    else
        C = 0;
    total = total + (C * credits [i]);
    cred = cred + credits [i];
}

total = total / cred;
return (total);
}

```

```

void student display (int n, double total) {
    System.out.println ("name of students : " + name);
}

```

```
System.out.println("usrn of students : "+usrn);  
System.out.println("marks of student along with credits of  
courses");
```

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

```
    System.out.println (marks [i] + " " + credits [i]);  
}
```

```
System.out.println ("sgpa of students : "+total);  
}
```

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

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

```
    Student obj = new Student();
```

```
    System.out.println ("enter no of course");
```

```
    int n = sc.nextInt();
```

```
    credits = new int [n];
```

```
    mark = new double [n];
```

```
    obj.StudentInput(n);
```

```
    double total = obj.calculate(n);
```

```
    obj.StudentDisplay(n, total);
```

```
}
```

```
}
```