

lab 2:

```
1) import java.util.*;  
class Student  
{
```

```
    private int n, credit[], gp[];  
    private String name, uen;  
    double sum, sgpa, marks[];
```

```
    Student()  
{
```

```
        name = " ";
```

```
        uen = " ";
```

```
    }
```

```
    void accept()  
{
```

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

```
        System.out.println("Enter the number of  
                             subjects:");
```

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

```
        credit = sc.nextInt();  
        credit = new int[n+1];
```

```
        marks = new double[n+1];
```

```
        System.out.println("Enter uen and name of  
                             student");
```

```
        uen = sc.next();
```

```
        name = sc.next();
```

```
        System.out.println("Enter credit and marks  
                             in each subject");
```

```
        for(int i=1; i<=n; i++)
```

```
        {
```

```
            System.out.println("Enter subject  
                                "+i+" credit and marks");
```



```

    credit[i] = sc.nextInt();
    marks[i] = sc.nextDouble();
}
}

void calculate()
{
    gp = new int[n+1];
    int cre = 0;
    for (int i = 1; i <= n; i++)
    {
        if (marks[i] >= 90)
            gp[i] = 10;
        else if (marks[i] >= 80 && marks[i] < 90)
            gp[i] = 9;
        else if (marks[i] >= 70 && marks[i] < 80)
            gp[i] = 8;
        else if (marks[i] >= 60 && marks[i] < 70)
            gp[i] = 7;
        else if (marks[i] >= 50 && marks[i] < 60)
            gp[i] = 5;
        else if (marks[i] < 50)
            gp[i] = 0;
        sum = (double)(credit[i] * gp[i]) + sum;
        cre = cre + credit[i];
    }
    sgpa = sum / cre;
}

void display()

```



```

    {
        System.out.println("usrn:" + usrn + "name:" + name);
        for(int i=1; i<=n; i++)
            System.out.println("marks:" + marks[i] +
                                "grade points:" + gp[i]);
        System.out.printf("sgpa = %.2f", sgpa);
    }
}

```

```

}

class Studentmain
{
    public static void main(String [] args)
    {
        Student s1 = new Student();
        s1.accept();
        s1.calculate();
        s1.display();
    }
}

```