# LAB - 2

```
import java.util.Scanner;
class Student
{
    String usn, name;
    double cgpa;
    int credits[];
    double marks[];

    void getData()
    {
    Scanner ss = new Scanner(System.in);
    System.out.println("Enter the Name and USN of
        Student respectively");
    name = ss.next();
    usn = ss.next();
    System.out.println("Enter the number of subjects:");
    n = ss.nextInt();
    credits = new int[n];
    marks = new double[n];
    for(int i=0; i<n; i++)
    {
    System.out.println("Enter the number "+(i+1)
    +" subject marks and credits respectively");
    marks[i] = ss.nextDouble();
    credits[i] = ss.nextInt();
    }
}
```

```
void cal_cgpa()
{
  double sum=0.0;
  for(int i=0; i<marks.length; i++)
  {
    if(marks[i]>=90 && marks[i]<=100)
    {
      sum+=10*credits[i];
    }
    else if(marks[i]>=80 && marks[i]<90)
    {
      sum+=9*credits[i];
    }
    else if(marks[i]>=70 && marks[i]<80)
    {
      sum+=8*credits[i];
    }
    else if(marks[i]>=60 && marks[i]<50)
    {
      sum+=7*credits[i];
    }
    else if(marks[i]>=50 && marks[i]<40)
    {
      sum+=6*credits[i];
    }
    else if(marks[i]>=40 && marks[i]<50)
    {
      sum+=5*credits[i];
    }
    else if(marks[i]<40)
    {
      sum+=0;
    }
  }
}
```

```
int credit_sum=0;
for(int i=0; i<credits.length; i++)
{
    credit_sum+=credits[i];
}
cgpa = (double)sum/credit_sum;
}
void printData()
{
    System.out.println("Student Details:");
    System.out.println("Student name:"+name);
    System.out.println("Student usn:"+usn);
    System.out.println("Student CGPA:"+cgpa);
}
}
class StudentMain
{
    public static void main(String args[])
    {
        Student s1=new Student();
        s1.getData();
        s1.cal_cgpa();
        s1.printData();
    }
}
```