1)
```java
import java.util.Scanner;
class student {
    private int Cred [], tc =0
    private double mark [], Cal[], Sum =0, Sgpa,num;
    private String name, VSN;

    Void accept()
    {
        System.out.println ("Enter Student details");
        Scanner S1 = new Scanner (System.in);
        System.out.println (" Enter name:");
        name = S1.nextline();
        System.out.println ("Enter .VSN:");
        VSN = S1.nextline();
        mark = new double [5];
        Cred = new int [5];
        Cal = new double [5];
        for (int i=0; i<5; i++){
            System.out.println ("Enter mark ["+i+"]:");
            mark [i] = S1.nextDouble();
        }

        for (int i=0; i<5; i++){
            System.out.println (" Enter Cred ["+i+"]:");
            Cred [i] = S1.nextInt();
        }
    }

    Void display()
    {
        System.out.println (" name:" + name);
        System.out.println (" USn:" + VSN);
        System.out.println (" Marks of Student are:");
```

```java
for(int i=0; i<5; i++){
    System.out.println(mark[i]);
    }
}
}

Void Calculate()

num = new double[5]
for(int i=0; i<5; i++){
    if(mark[i] > 100){
        System.out.println("Not-valid");
    }
    else if(mark[i] >= 90){
        num[i] = 10;
    }
    else if(mark[i] >= 80 && mark[i] < 90)
    {

        num[i] = 9; }
    else if(mark[i] >= 70 && mark[i] < 80){
        num[i] = 8;
    }
    else if(mark[i] >= 60 && mark[i] < 70)
    {

        num[i] = 7;
    }
    else if(mark[i] >= 50 && mark[i] < 60){
        num[i] = 5;
    }
    else if(mark[i] >= 40 && mark[i] < 50)
    {

        num[i] = 4;
    }
}
```

```java
        else {
            num[i] = 0;
        }
        Cal[i] = num[i] * Cred[i];
        Sum = Sum + Cal[i];
        tc = tc + Cred[i];
    }
    Sgpa = Sum/tc;
    System.out.println("Sgpa :- " + sgpa);
    }
}

public class Main
{
    public static void main (String args[])
    {
        Student obj = new student();
        obj.accept()
        obj.display();
        obj.Calculate();
    }
}
```