

JAVA CODE TO CALCULATE SGPA

```
import java.util.*;

class student {
    String usn;
    int marks[]=new int[5];
    int credits[]= new int[5];
    String name;

    void input() {
        System.out.println("Enter the usn:");
        Scanner sc = new Scanner(System.in);
        usn=sc.next();
        System.out.println("Enter the name:");
        name=sc.nextLine();
        String usn =sc.nextLine();
        System.out.println("Enter the marks of each
subject");
        for(int i=0;i<5;i++)
        {
            marks[i]=sc.nextInt();
        }
    }
}
```

```
        System.out.println("Enter the credits of each  
subject");
```

```
        for(int i=0;i<5;i++)  
        {  
            credits[i]=sc.nextInt();  
        }  
    }
```

```
void output()
```

```
{  
    System.out.println("Name: "+name);  
    System.out.println("USN: "+usn);  
    for(int i=0;i<5;i++)  
    {  
        System.out.println("Marks of  
subject_"+(i+1)+" = "+marks[i]);  
        System.out.println("credits of  
subject_"+(i+1)+" = "+credits[i]);  
    }  
}
```

```
void cgpa()
```

```
{  
    int cred[]= new int[5];  
    int sgpa=0;
```

```
int sum=0;
float res;
for(int i=0;i<5;i++)
{
    if(marks[i]>=90)
        cred[i]=10;
    else if(marks[i]>=80)
        cred[i]=9;
    else if(marks[i]>=70)
        cred[i]=8;
    else if(marks[i]>=60)
        cred[i]=7;
    else if(marks[i]>=50)
        cred[i]=6;
    else if(marks[i]>=40)
        cred[i]=5;
    else if(marks[i]>=35)
        cred[i]=4;
    else if(marks[i]<35 && marks[i]>=0)
        cred[i]=0;
    else
```

```
        System.out.println("Invalid  
marks");
```

```
        sgpa+=(cred[i]*credits[i]);
```

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

```
    }
```

```
    res=(float)sgpa/sum;
```

```
    System.out.println("SGPA = "+res);
```

```
 }
```

```
}
```

```
class sgpa {
```

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

```
        student kp = new student();
```

```
        kp.input();
```

```
        kp.output();
```

```
        kp.cgpa();
```

```
    }
```

```
}
```

OUTPUT

```
Enter the usn:
1bm21cs232
Enter the name:
kenny
Enter the marks of each subject
30
45
75
68
90
Enter the credits of each subject
3
3
2
1
1
Name:
USN: 1bm21cs232
Marks of subject_1 = 30
credits of subject_1 = 3
Marks of subject_2 = 45
credits of subject_2 = 3
Marks of subject_3 = 75
credits of subject_3 = 2
Marks of subject_4 = 68
credits of subject_4 = 1
Marks of subject_5 = 90
credits of subject_5 = 1
SGPA = 4.8
```