

## CGPA CALCULATION

```
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 name and usn");

Scanner sc=new Scanner(System.in);

usn=sc.nextLine();

name=sc.nextLine();

System.out.println("Enter the marks and credits of each subject\n");

for(int i=0;i<5;i++){

marks[i]=sc.nextInt();

credits[i]=sc.nextInt();

}

}

void output(){

System.out.println("Name :"+ " "+name+"\nUSN :"+ " "+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 sgpa=0;

int sum=0;

int cred[]=new int[5];

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]>=35){
cred[i]=5;
}else if(marks[i]<35){
cred[i]=0;
}else {
System.out.println("Invalid marks");
}
sgpa=sgpa+(cred[i]*credits[i]);
sum=sum+credits[i];
}
float res=(float)sgpa/sum;
System.out.println("SGPA ="+" "+res);
}
}

class sgpa{
public static void main(String args[]){
student vb=new student();
vb.input();
vb.output();
vb.cgpa();
}
}

```

}

### OUTPUT

```
C:\Users\Admin\Desktop\1BM21CS237\00J LAB>javac sgpa.java
C:\Users\Admin\Desktop\1BM21CS237\00J LAB>java sgpa
Enter the name and usn
1BM21CS237
VARUN BHATKAL
Enter the marks and credits of each subject
30
3
45
3
75
2
68
1
90
1
Name : VARUN BHATKAL
USN : 1BM21CS237
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
```