

WEEK 4- OOO LAB PROGRAM

PROGRAM AND OUTPUT

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Program-

```
import java.util.Scanner;

class Student
{
    private String susn;
    private String sname;
    private int scredit[];
    private int smarks[];

    void getDetails()
    {
        System.out.println ("enter student details:");
        Scanner in=new Scanner(System.in);
        scredit=new int[5];
        smarks=new int[5];
        susn=in.next();
        sname=in.next();
        for(int i=0; i<5; i++){
            System.out.println("credit for sub "+(i+1)+":");
```

```

scredit[i]=in.nextInt();
}
for(int i=0; i<5; i++){
System.out.println("marks for sub "+(i+1)+":");
smarks[i]=in.nextInt();
}
}

void printDetails()
{
System.out.println("USN: "+susn);
System.out.println("Name: "+sname);
for(int i=0; i<5; i++){
System.out.print("credits for sub "+(i+1)+":");
System.out.println(scredit[i]); }

for(int i=0; i<5; i++){
System.out.print("marks for sub "+(i+1)+":");
System.out.println(smarks[i]); }
}

void Sgpa(){
int sum=0,sum2=0;
double g=0,gp;
double sgpa;

```

```
for(int i=0;i<5;i++){  
    if(smarks[i]>=90){  
        g=10;  
    }  
    else if(smarks[i]>=80 && smarks[i]<90)  
    {  
        g=9;  
    }  
    else if(smarks[i]>=70 && smarks[i]<80)  
    {  
        g=8;  
    }  
    else if(smarks[i]>=60 && smarks[i]<70)  
    {  
        g=7;  
    }  
    else if(smarks[i]>=50 && smarks[i]<60)  
    {  
        g=6;  
    }  
    else if(smarks[i]>=40 && smarks[i]<50)  
    {  
        g=4;  
    }  
}
```

```
else if(smarks[i]<40)
{
    g=0;
}
sum+=g*scredit[i];
sum2+=scredit[i];
}
sgpa=sum/sum2;
System.out.print("SGPA of student: ");
System.out.println(sgpa);
}
}
public class Main
{
    public static void main(String ss[])
    {
        Student s1=new Student();
        s1.getDetails();
        s1.printDetails();
        s1.Sgpa();
    }
}
```

Output-

```
input
enter student details:
ibm19cs081
mal
credit for sub 1:
1
credit for sub 2:
2
credit for sub 3:
3
credit for sub 4:
4
credit for sub 5:
5
marks for sub 1:
10
marks for sub 2:
20
marks for sub 3:
30
marks for sub 4:
40
marks for sub 5:
50
USN: ibm19cs081
Name: mal
credits for sub 1:1
credits for sub 2:2
credits for sub 3:3
5
marks for sub 1:
10
marks for sub 2:
20
marks for sub 3:
30
marks for sub 4:
40
marks for sub 5:
50
USN: ibm19cs081
Name: mal
credits for sub 1:1
credits for sub 2:2
credits for sub 3:3
credits for sub 4:4
credits for sub 5:5
marks for sub 1:10
marks for sub 2:20
marks for sub 3:30
marks for sub 4:40
marks for sub 5:50
SGPA of student: 3.0
...Program finished with exit code 0
Press ENTER to exit console.
```

```
input
enter student details:
ibml19cs790
sam
credit for sub 1:
4
credit for sub 2:
5
credit for sub 3:
4
credit for sub 4:
6
credit for sub 5:
3
marks for sub 1:
80
marks for sub 2:
70
marks for sub 3:
90
marks for sub 4:
78
marks for sub 5:
55
USN: ibml19cs790
Name: sam
credits for sub 1:4
credits for sub 2:5
credits for sub 3:4
```

```
input
3
marks for sub 1:
80
marks for sub 2:
70
marks for sub 3:
90
marks for sub 4:
78
marks for sub 5:
55
USN: ibml19cs790
Name: sam
credits for sub 1:4
credits for sub 2:5
credits for sub 3:4
credits for sub 4:6
credits for sub 5:3
marks for sub 1:80
marks for sub 2:70
marks for sub 3:90
marks for sub 4:78
marks for sub 5:55
SGPA of student: 8.0
...Program finished with exit code 0
Press ENTER to exit console.
```