

```

import java.util.*;
class Student
{
    String usn,name;
    int credits[]=new int[10];
    int cie[]=new int[10];
    int see[]=new int[10];
    void initialise(String usn,String name)
    {
        this.usn=usn;
        this.name=name;
    }
    void display()
    {
        System.out.println("Name: "+this.name);
        System.out.println("USN: "+this.usn);
    }
    void calculate(int cred[],int s[],int c[])
    {
        double sgpa;
        double sum=0.0;
        credits=cred;
        cie=c;
        see=s;
        int t_cred=0;
        for(int i=0;i<7;i++)
        {
            t_cred=t_cred+cred[i];
            if(cie[i]<20)
                sum=0.0;
            else
            {
                if(see[i]>=90 && see[i]<=100)
                    sum=sum+credits[i]*10;
                if(see[i]>=80 && see[i]<=89)
                    sum=sum+credits[i]*9;
                if(see[i]>=70 && see[i]<=79)
                    sum=sum+credits[i]*8;
                if(see[i]>=60 && see[i]<=69)
                    sum=sum+credits[i]*7;
                if(see[i]>=55 && see[i]<=59)
                    sum=sum+credits[i]*6;
                if(see[i]>=50 && see[i]<=54)
                    sum=sum+credits[i]*5;
                if(see[i]>=40 && see[i]<=49)
                    sum=sum+credits[i]*4;
                if(see[i]>=0 && see[i]<=39)
                    sum=sum+credits[i]*0;
            }
        }
    }
}

```

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        System.out.println("Total credits: "+t_cred);
        sgpa=sum/t_cred;
        System.out.println("SGPA: "+sgpa);
    }
}

class Main
{
    public static void main(String args[])
    {
        int cred[]=new int[7];
        int s[]=new int[7];
        int c[]=new int[7];
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter your name:");
        String n=sc.nextLine();
        System.out.println("Enter your usn:");
        String u=sc.nextLine();
        System.out.println("Maths "+"Physics "+"BEE "+"ECM " +"IDT "+"EVI "+"English");
        System.out.println("Enter the credits:");
        for(int i=0;i<7;i++)
        {
            cred[i]=sc.nextInt();
        }
        System.out.println("Enter cie marks:");
        for(int i=0;i<7;i++)
        {
            c[i]=sc.nextInt();
        }
        System.out.println("Enter see marks:");
        for(int i=0;i<7;i++)
        {
            s[i]=sc.nextInt();
        }

        Student st=new Student();
        st.initialise(u,n);
        st.display();
        st.calculate(cred,s,c);
    }
}

```

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Microsoft Windows [Version 10.0.22621.819]  
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```
C:\Users\bmsce>cd documents
```

```
C:\Users\bmsce\Documents>cd USN_113_java
```

```
C:\Users\bmsce\Documents\USN_113_java>javac LabProg2.java
```

```
C:\Users\bmsce\Documents\USN_113_java>java Main
```

```
Enter your name:
```

```
asd
```

```
Enter your usn:
```

```
1BM21CS112
```

```
Maths Physics BEE ECM IDT EVI English
```

```
Enter the credits:
```

```
3 4 3 3 1 3 1
```

```
Enter cie marks:
```

```
19 48 49 47 46 46 44
```

```
Enter see marks:
```

```
67 95 94 93 92 91 95
```

```
Name: asd
```

```
USN: 1BM21CS112
```

```
Total credits: 18
```

```
SGPA: 8.333333333333334
```