

```
import java.util.*;
```

```
public class Main
```

```
{
```

```
    String name;
```

```
    String usn;
```

```
    int marks[]=new int[5];
```

```
    int credits[]=new int[5];
```

```
    int tot=0;
```

```
    int i;
```

```
    int grade=0;
```

```
    void read_data()
```

```
{
```

```
    Scanner obj=new Scanner(System.in);
```

```
    System.out.println("Enter the name of the students");
```

```
    name=obj.next();
```

```
    System.out.println("Enter the USN");
```

```
    usn=obj.next();
```

```
    System.out.println("Enter the credits and marks for 5 subjects");
```

```
    for(i=0;i<5;i++)
```

```
{
```

```
    System.out.println("Credits for subject" +(i+1)+":");
```

```
    credits[i]=obj.nextInt();
```

```
    System.out.println("Marks for subject" +(i+1)+": ");
```

```
    marks[i]=obj.nextInt();
```

```
}
```

```
}
```

```
void calc_SGPA()
```

```
{
```



```
void calc_SGPA()
{
    for(i=0;i<5;i++)
    {
        if(marks[i]>=90&&marks[i]<=100)
            grade=10;
        else if(marks[i]>=75&&marks[i]<90)
            grade=9;
        else if(marks[i]>=60&&marks[i]<75)
            grade=8;
        else if(marks[i]>=50&&marks[i]<60)
            grade=7;
        else if(marks[i]>=45&&marks[i]<50)
            grade=6;
        else if(marks[i]>=40&&marks[i]<45)
            grade=5;
        else if(marks[i]<40)
            grade=0;

        tot=tot+grade*credits[i];
    }
    tot=tot/20;
    System.out.println("SGPA:"+tot);
}

void details()
{
    System.out.println("Name:"+name);
    System.out.println("USN:"+usn);
    System.out.println("Marks and Credits for all 5 subjects:");
    for(i=0;i<5;i++)
```



```
        tot=tot+grade*credits[i];
    }
    tot=tot/20;
    System.out.println("SGPA:"+tot);
}

void details()
{
    System.out.println("Name:"+name);
    System.out.println("USN:"+usn);
    System.out.println("Marks and Credits for all 5 subjects:");
    for(i=0;i<5;i++)
    {
        System.out.println(marks[i]);
        System.out.println(credits[i]);
    }
    calc_SGPA();
}

public static void main(String args[])
{
    Main ob=new Main();
    ob.read_data();
    ob.calc_SGPA();
    ob.details();

}
}
```



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06-11-2020

Command Prompt

Microsoft Windows [Version 10.0.18363.1139]

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C:\Users\sohan>cd C:\Users\sohan\Desktop\Java Programs\SGPA

C:\Users\sohan\Desktop\Java Programs\SGPA>javac Main.java

C:\Users\sohan\Desktop\Java Programs\SGPA>java Main

Enter the name of the students

sohan

Enter the USN

159

Enter the credits and marks for 5 subjects

Credits for subject1:

4

Marks for subject1:

45

Credits for subject2:

3

Marks for subject2:

76

Credits for subject3:

5

Marks for subject3:

88

Credits for subject4:

5

Marks for subject4:

98

Credits for subject5:

2

Marks for subject5:

56

SGPA:8

Name:sohan

USN:159

Marks and Credits for all 5 subjects:

45

4

76

3

88

5

98

5

56

2

SGPA:8

C:\Users\sohan\Desktop\Java Programs\SGPA>



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ENG

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