

CODE:

```
import java.io.*;
import java.lang.*;
import java.util.*;
public class lab2
{
    int n;
    String usn;
    String name;
    int credit[];
    double mark[];
    public static void read()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the Number Of Subjects");
        n=sc.nextInt();
        credit=new int[n];
        mark=new double[n];
        System.out.println("Enter the name of the Student");
        name=sc.next();

        System.out.println("Enter the USN of The Student");
        usn=sc.next();

        System.out.println("Enter the Credits Of The Subject");
        for(int i=0;i<n;i++)
        {
            credit[i]=sc.nextInt();
        }
        System.out.println("Enter the Marks Of The Student In Corresponding Subjects");
        for(int i=0;i<n;i++)
```

```
{  
    mark[i]=sc.nextDouble();  
}  
}
```

```
public static int grade(double marks)
```

```
{  
    if(marks>=90&&marks<=100)  
    {  
        return 10;  
    }  
    else if(marks>=80&&marks<90)  
    {  
        return 9;  
    }  
    else if(marks>=70&&marks<80)  
    {  
        return 8;  
    }  
    else if(marks>=60&&marks<70)  
    {  
        return 7;  
    }  
    else if(marks>=50&&marks<60)  
    {  
        return 6;  
    }  
    else if(marks>=40&&marks<50)  
    {  
        return 5;  
    }  
}
```

```

    }
    else
    {
        System.out.println("You Have Failed In This Subject");
        return 0;
    }
}

```

```

public static double caccluate()
{
    read();
    double sgpa;
    double sum_credits=0;
    double sum=0;
    int c;
    for(int i=0;i<n;i++)
    {
        c=grade(mark[i]);
        sum_credits+=credit[i];
        sum=sum+c*credit[i];
    }
    sgpa=(double)(sum/sum_credits);
    return sgpa;
}

```

```

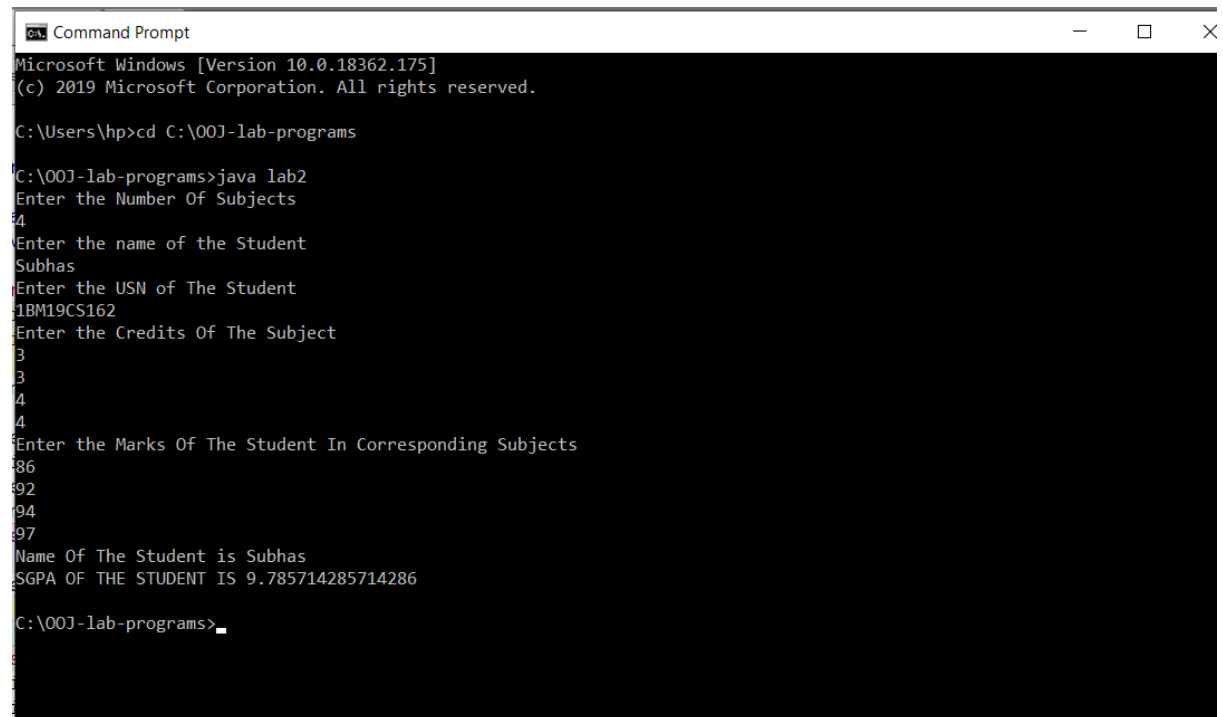
public static void main(String[] args)
{
    Scanner sc=new Scanner(System.in);

    double sgpa=caccluate();
    System.out.println("Name Of The Student is " + name);
    System.out.println("SGPA OF THE STUDENT IS " + sgpa);
}

```

```
}  
  
}
```

OUTPUT:



```
Command Prompt
Microsoft Windows [Version 10.0.18362.175]
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C:\Users\hp>cd C:\00J-lab-programs

C:\00J-lab-programs>java lab2
Enter the Number Of Subjects
4
Enter the name of the Student
Subhas
Enter the USN of The Student
1BM19CS162
Enter the Credits Of The Subject
3
3
4
4
Enter the Marks Of The Student In Corresponding Subjects
86
92
94
97
Name Of The Student is Subhas
SGPA OF THE STUDENT IS 9.785714285714286

C:\00J-lab-programs>
```