```
2). Develop a java foreignam to create a class student with members usn
       Develop a java foregram to create a mostry mores, Include methods name an array models and an array mothed to calculate to accept and display details and a mothed to calculate
        SOPA of a student
       import java util. ";
A>
        hublic class Main
             Storing name;
          Storing con;
Int market) = new int[5];
          int oredits [] = new int [5]; and a nion him order office
          int tot=0;
           infi;
         int grade = 0,
          void Gread data()
         I Scamer obj = new Scanner ( System In) ;

System out printent Enter name of student by
             name = obj. next().
Systom. out frinkln ("Enter the USN")
             usn = obj.next();
            system out println (" Enter the credits and moves of 5 sujects");
             for i=0; i<5; i++)
                 System out printen (" Credits you subjects "+ (i+1)+":");
                coredits [i] = Obj. next Int();

System: out. println (" Marks for suggest" + (i+1) + ":"),

monts [i] = Obj. next Cnt();
       void calc_SGRA()
       { for (# i=0; i<5; i++)
} if (modes(i)>= 90 & a modes[i] = 100)
              grade =10;
               else if (monts [i] >= 75 ex monts [i] < 90)
```

```
eleif ( monks [i] > =.60 KR monks [i] <75)
else if ( mosks[i]>=50 kk mosks[i]<60)
 elserif (marks[i]>=45 exmarks [i]<50)
 grade=6;
 else if (monks [i] >= 40. XX mosts [] (45)
  grade=5;
 cloc if (marks [i](40)
 grode = 0,
    tot = tot + grade * credits [i];
 tot = tot/20;
 System. out. frinken ('SGPA: "+ tot);
   void destils ()
 3 System-out-printent "Name: "+ name).
     System. out. println ("USN:" + USDA);
    System. out pringen ("Mooks and & Credits you all. 5 Subject: ")
    for(i=0; i<5; i++)
          System.oud. printen (magks [i]);
        System out frint in ( Credits [i])
 public static vold named main (Storing ange )
    Main 06= new Main ().
       ob. calc_Sarp();
       ob details ()
```

```
gpa1 - Notepad
                                                                                                                                                                                                 File Edit Format View Help
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()
                                                                                                                                                   Ln 1, Col 1
                                                                                                                                                                      100% Windows (CRLF)
                                                                                                                                                                                            UTF-8
```

```
sgpa1 - Notepad
                                                                                                                                                                                          File Edit Format View Help
  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++)
                                                                                                                                              Ln 1, Col 1
                                                                                                                                                                100% Windows (CRLF)
                                                                                                                                                                                     UTF-8
```

```
gpa1 - Notepad
File Edit Format View Help
       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();
                                                                                                                                                  Ln 1, Col 1
                                                                                                                                                                     100% Windows (CRLF)
                                                                                                                                                                                           UTF-8
```

Command Prompt	_	×
Microsoft Windows [Version 10.0.18363.1139] (c) 2019 Microsoft Corporation. All rights reserved.		^
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 IS9 Enter the credits and marks for 5 subjects C:\Users\sohan = Credits for subject1:		
Narks for subject1: 45 Credits for subject2:		
3 Marks for subject2: 76 Credits for subject3:		
Omarks for subject3: 38 Credits for subject4:		
5 Marks for subject4: 98 Credits for subject5:		
Z Marks for subject5: 5GPA:8 Name:sohan JSN:159 Marks and Credits for all 5 subjects:		
Marks and Credits for all 5 subjects: 45 4 76 3		
3 38 5 58 5		
98 5 56 2		
2 SGPA: 8		
C:\Users\sohan\Desktop\Java Programs\SGPA>		~