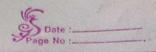
Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

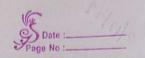
3/6/0	Date :
20.	Develop a java program to create a class student with members usn, name, an array credits and an arraymarks. Include methods to accept and display details and a method to calculate SGPA of a student. import java. util . Scanner;
	class Student & String usn, name; int cretd int credits = new int [25]; int marks = new int [25]; int n;
	Shing subject []= new Shing[25]; void accept() System.out.println ("Enter the USN, Name,
	number of subjects in the semester: "); Scanner s = new Scanner (System in); usn = s · nent (); name = s · nent (); n = s · next Int ();
	System. out-println ("Enter the name of the each subjects the and credit respectively) for (int i=0; i <n; credits[i]="s.nextInt();</td" i++)="" subject[i]="s.next();"></n;>



```
System. out printm ("Enter the marks obtained");
foolinti-osicn; i+t)
  marks [i] - s. next Int ();
double calculate ()
int total credit = 0;
double sgpa, sum =0;
for (int i=0; icn; i++).
 sum = sum + grade (marks (i)) + credits[i];
 totalcredit = totalcredit+credits[i];
 sapa = sum/total credit;
 return sapa;
int grade (inter int mark)
 if (mark >0) &8 (mark 540))
 & returno; }
 else
   if ((mark(=100) & b (mark)=90))
     return 10; 3
  else if ((mark => = 80) & & (mark (90))
     return 9;
```



```
else H ((mark >= 90) && (mork < 80))
    return 8;
    dse it ((mark 7 = 60) & 8 (mark < 70))
   Treturn 7;
   else if ( Cmark >= 50) 66 (mark ( 60))
      return 6;
    else if ((mark >=50) && (mark <55)
    return 5)
     dse if ((mark >= 40) & B (mark <50)
     return 4; 4
     return o,
void display ()
  double sapa;
  system.out.printin ("USN: "+USN +
       " In Name: "+ Name);
 System. out. println ("subject \t
   Credits It Marks It Grade Points");
```



_	
	for (int 1=0; icn; s++) {
	System.out.pointln(subject [i]+"It"+ modits [i] +" It" + morks[i]
	+ "It" + grade (mark[i])); 3
- wh	Sgpa = calculate();
	System.out println ("sapa = "+sgpa);
-	3. a said all to allotte stagman all policies
	a juna piogram to crade in book objects &
	class Main
	& public states void main (string args[])
	f double sgpa;
	Student SI= new Student();
	SI. accept (); malling parts
_	SI-display ();
_	2 capea and to
	3 (acomply) years and a record
- '	output:
_	Enter the USN, name, number of subjects in the semester
	1bm21cs045 Chinmagi +
	Enter the name of each subjects and credits respectively
-	ECM 3 EVI 3 IDT 1 PWE 1 ACN 3
	PHY 4 BEE 3
	Enter marks obtained in each subject:
	95 92 90 85 92 99 82
	USN: 16m21cs OUS
3833 10	N'ame: Chinmayi Subject Bredits Marks Grade Points
	00
	1 20 10
	PWE 1 85
	ACN 3 92 10
	ACT 3
	PHY 4 99 10 BEE 3 82 9
1 33	5GPA = 9.7777777777777

Out put:

```
_ 🗇 🛛
                                                                            Command Prompt
  C:4.
  Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.
                                                                                                                                                                                      ۸
  C:\Users\Student>cd C:\Users\Student\Desktop\1BM21CS045\00J
  C:\Users\Student\Desktop\1BM21CS045\00J>javac Sgpa.java
 C:\Users\Student\Desktop\1BM21CSØ45\00J>java Sgpa
Enter the USN, Name, number of subjects in the semester :
1bm21csØ45
Chinmayi
Chinmayi

Penter the name of the each subjects and credits respectively

ECM 3

EUI 3

IDT 1

PWE 1

ACN 3

PHY 4

BEE 3

Enter the Marks obtained in each subject:

95

92

90

82

USN : 1bm21cs045

Name : Chinmayi

Subject Credits Marks Grade Points

ECM 3 95 10

IDT 1 90 10

PWE 1 85 9

ACN 3 92 10

IDT 1 90 10

PWE 1 85 9

ACN 3 92 10

PHY 4 99 10

BEE 3 82 9

SGPA = 9.7777777777777777
  C:\Users\Student\Desktop\1BM21CS045\00J>
```