## **LAB 02:**

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.

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	Develop a Java Program do create a class student with
	Include methods to accept and an assay masks
	Include methods to accept and display details and a method to calculate SGPA of a student.
	Smaent.
	impost java . util. scanner .
	class student of
	string usn:
	string name:
1000	int EJ credits; and one thinks to madelas legetal
	int [ ] masks;
	int number of Subjects;
	student (int number of subject) of
	this number of subject = number of subjects;
	credits = new int [number of subjects ];
	marks = new int [number of subjects ];
	3
	void accept Details () f
	scanner sc= new scanner (system in)
	System. out . println ("Enter usn: ");
	usn = scnextline ();
	System . Out . println ("Entex name: ");
	hame = Sc. nextine
	for (int i= 0; icnumber of Subjects; i++) {
	System-out println ("Enter credits" + (i+1)+" ": );
	System. Out. paint ("Enter marks for subject" + (i+1)+"
	Description of the state of the
	masks [ ] = sc. next Int ();
	y
	3
	void display Details ()-{
	System. Out. Print en (" In Student Detruils:");

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Output	Mass " I detaling the many P
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chier one number of subjection	cbo : 3
2017 1 201723 65001	industry sitting has help?
John Doe	ASISSIM
Enter credits for subject 1: 4	Curen Od painter ("CCPR : 1
Enter marks for subject 1:90	I double relations + SOPA () of
Enter credit for subject 2:	3) = AN COM HATH CONTROL STANDS
Enter marks for Subject 2:85	int total Credit = 0:
Enter credits for subject 3:3	idul fredament is o si thinked Subi
Enter marks for subject 3:88	Total war gut at Marks + 1= ms
£ - [	timbal Coentito the executo [1]
10	in ( total corella = = 0) sections
Student Details:	Person total majeries Marka
USN: 1BM 23C5001	P
Name: John Doe	Class Shidontapp of
Subject 1 - Cxedito : 4,	
Subject 2 - Coedits :3	
Subject 3 - Credits : 3	
	it numsibility = Schook Int
- ( Al-3° Al-2° MIN ) AN	sudent student ? new coule
	of May togano . the le
	Col stigling polytile their
	17

```
import java.util.Scanner;
class Student{
String usn;
String name;
int[] credits;
int[] marks;
int number of Subjects;
Student(int number of Subjects){
this.numberofSubjects=numberofSubjects;
credits=new int[numberofSubjects];
marks=new int[numberofSubjects];
}
void acceptDetails(){
Scanner sc=new Scanner(System.in);
System.out.println("ENTER USN:");
usn=sc.nextLine();
System.out.println("ENTER NAME:");
name=sc.nextLine();
for(int i=0;i<numberofSubjects;i++){</pre>
System.out.println("ENTER CREDITS:"+(i+1));
credits[i]=sc.nextInt();
System.out.println("ENTER MARKS:"+(i+1));
marks[i]=sc.nextInt();
}}
void displayDetails(){
System.out.println("\n STUDENT DETAILS:");
System.out.println("USN:"+usn);
System.out.println("NAME:"+name);
for(int i=0;i<numberofSubjects;i++){</pre>
"+"MARKS:"+marks[i]);}
```

```
System.out.println("SGPA:"+calculateSGPA());}
double calculateSGPA(){
double totalWeightedMarks=0;
int totalCredits=0;
for(int i=0;i<numberofSubjects;i++){</pre>
totalWeightedMarks+=marks[i]*credits[i];
totalCredits+=credits[i];}
if(totalCredits==0)
return 0;
return totalWeightedMarks/totalCredits;}
}
class StudentApp{
public static void main(String ss[]){
Scanner sc=new Scanner(System.in);
System.out.println("Enter the number of subjects:");
int numSubjects=sc.nextInt();
Student student=new Student(numSubjects);
student.acceptDetails();
student.displayDetails();
}
    Command Prompt
C:\Users\thris>d:
D:\>cd 24BMSCE
D:\24BMSCE>javac StudentApp.java
D:\24BMSCE>java StudentApp
Enter the number of subjects:
2
ENTER USN:
1234
ENTER NAME:
anu
ENTER CREDITS:1
ENTER MARKS:1
 30
ENTER CREDITS:2
25
ENTER MARKS:2
STUDENT DETAILS:
USN:1234
NAME:anu
SUBJECT1 CREDITS:22 MARKS:30
SUBJECT2 CREDITS:25 MARKS:39
SGPA:34.787234042553195
D:\24BMSCE>
```