Week 2

2.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.

2/12/22   week 2

2) Develop a Java Program to create a class Student with members USN, name, an array Credits & marks. Include methods to accept & display details & a method to calculate cgpa of student

```
import java.util.Scanner;

Class Student {

String USN, Name;
int []marks = new int[5]
int [] Credits = new Credits[5]

void accept() {
Scanner SS = new Scanner(System.In);
System.out.println("Enter USN");
USN = SS.next();
System.out.println("Enter Name");
Name = SS.next();
System.out.println("Enter Marks");
for(int i=0; i<5; i++){
marks[i] = SS.nextInt();
}
System.out.println("Enter Credits");
for(int P=0; P<5; P++){
Credits[P] = SS.nextInt();
}
}

void display(){
System.out.println("USN : "+USN);
System.out.println("Name : "+Name);
System.out.println("Marks in 5 Subjects :");
```

```java
    for (int i=0; i<5; i++){
        System.out.println(Marks[i]);
    }

    System.out.println("Gredits of 5 Subjects");
    for (int i=0; i<5; i++){
        System.out.println(Gredit[i]);
    }
}

    int[] grade();

float sgpa(){
    float gpa=0, Sum=0;
    for (int i=0; i<5; i++){
        gpa += marks[i] * Gudits[i];
        Sunt= Gudits[i];
    }
    float m= (gpa/Sum)
        return m;
    }
}

class Test{
Public static void main(String x[]){
    Sass
        Student S1= new Student();
        S1.accept();
        S1.display();
        float f= S1.sgpa();
        System.out.println(f);
    }
}
```

```
int grade (int int marks) {
    if (marks > 89)
        return 10;
    else if (marks > 79)
        return 9;
    else if (marks > 69)
        return 8;
    else if (marks > 59)
        return 7;
    else if (marks > 49)
        return 6;
    else
        return 0;
}
```

```
// if (marks [i] > 40)
        grade = marks[i]/10;
    else
        grade = 0;
}
```

output

Enter your name : 1bm21cs082
Enter credits & marks of each subject respectively

4	55
3	65
2	75

Total Credits = 9

SGPA = 6.77

lab2.java - Notepad

File Edit Format View Help

```java
                if(marks[i]>=60 && marks[i]<70)
                        result+=7*credits[i];
                if(marks[i]>=50 && marks[i]<60)
                        result+=6*credits[i];
                if(marks[i]>=40 && marks[i]<50)
                        result+=5*credits[i];
        else result+=0*credits[i];
        }
        for(int i=0;i<3;i++)
                total+=credits[i];
        result=result/total;
        }
        void display()
                {
                    System.out.printl
                    System.out.printl
                    for(int i=0;i<3;i
                            System.ou
                    System.out.printl
                    System.out.printl
                }
}


class lab2
{
        public static void main(String[]

        {
                student s=new student();
                s.accept();
                s.calculate();
                s.display();
        }
}
```

Ln 21, Col 10   100%   Windows (CRLF)   UTF-8

Command Prompt

```
C:\Users\student\Desktop\ooj 1BM21Cs037\week_2>javac lab2.java

C:\Users\student\Desktop\ooj 1BM21Cs037\week_2>java lab2
Enter your Name
surag
Enter USN
1bm21cs037
Enter credits and marks of each subject respectively
4 55
3 65
2 75
Name:surag  USN:1bm21cs037
credits   Marks
4         55
3         65
2         75
Total credits=9
SGPA=6.777777777777778

C:\Users\student\Desktop\ooj 1BM21Cs037\week_2>
```

Type here to search

24°C Partly sunny   11:47 AM 12/2/2022