12/23

Date
Page 5

Lab -> 2

# Develop a Java program to create a class student with members USN, name, an array credits and array marks, Inside method to accept and display details, and a method to calculate SGPA of a student.

```
Import Java.util.*;
public class main{
        public static void main (String args[])
        Student S1 : new Student( );
        S1.getStudentDetails( );
        S1.getmarks( );
        S1.computerSGPA( );

    System.out.println("Name :" +S1.name);
    System.out.println("Name:"+S1.USN);
    System.out.println("Name:"+S1.SGPA);
}
}
Class subjects{
        Int subjectmarks;
        Int Credits;
        Int Grades;
}
```

```
Class Student
{
    Subject subject[];
    String name;
    String USN;
    double SGPA;
    Scanner s;

    Student()
    {
    subject = new Subject[9];
    for(int i=0; i<9; i++)
    {
    subject[i]=new Subject();
    }
    s= new Scanner (System.in);
    }
    void getStudentDetails()
    {
    System.out.println("Enter your name:");
    this.name = s.nextLine();
    System.out.println("Enter your USN:");
    this.usn=s.next();
    }
```

```
void getStudentDetails()
{
System.out.println("Enter your name:");
this.name=S.nextline();
System.out.println("Enter your USN:");
this.USN=S.next();
}
void getmarks()
{
For(int i=0;i<8;i++)
{
System.out.println("Enter the marks of
the "+(i+1)+" Subject");
Subject[i].SubjectMarks=S.nextInt();
System.out.println("Enter the Credits of
the "+(i+1)+" Subject");
Subject[i].Credits=S.nextInt();
Subject[i].grades=(Subject[i].Subject.
marks/10)+1;
if(Subject[i].grades>10)
{
Subject[i].grades=10;
}
if(Subject[i].grades<4)
{
```

```
        Subject[i].grades=0;
    }
}
void computeSGPA()
{
    int sum=0;
    int totalCredits=0;
    for(int i=0;i<9;i++)
    {
    sum+=(Subject[i].grades*Subject[i].credits);
    totalCredits+=Subject[i].credits;
    }
    this.SGPA=(double)sum/totalCredits;
}
}
```

CVTM

Enter your USN:
1bm21cs258

Enter the mark of 1 sub - 85
Enter the Credit of 1 sub - 3

Enter the mark of 2 Subject - 75
Credits - 3

Enter the mark of 3 Subject -> 82
Credits - 4

Enter the marks of 4 Subject -> 71
Credits - 3

Enter the marks of 5 Subject -> 89
Credits -> 4

Enter the marks of 6 subject -> 71
Credits -> 3

Enter the marks of 7 Subject -> 75
Credits -> 3

Enter the marks of 8 subjects => 45
Credits => 3

Name: Shiv
USN ~~Name~~: LBM22CS258
SGPA: 7.2636.

19/12/2023