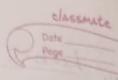
23/1/24. Lab-7.

0)

Design a package for called maths having a class called number (add and subtract) method supplement a simple class maths demo. to cur maths (outside package maths) that makes use of class which is provided by maths.

O) Create a package at which has two classes and Internals. The class student has members lite usn, name, sem. The class Internals clerified from student has an array that stores the internal marts scored in 5 courses of the current semester of the student. Create another package set which has the class enternal which is derived class of student. This class has an array that stores the set marts scored in 5 courses of the current semesta of the swant. Import the two package in a file that declares the final marts of n students in all fine courses.

Enter out , porning Generales "+ seem)



11 Student java

Package CIE;

importijava. util. Scanner;

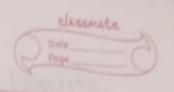
Public class student ? protected string usn = new string(); protected string name = new string(); protected int sem;

public roid inputstudent Details () { Scanner sc = new Scanner (System.in); Bystem. out. println ("Enter USN: "); usn = 8c. next();Bystem out println ("Enter Name: ");

name = sc. next();

System. out. println ("Enter semester:"); sem = sc. nextInt();

public void DisplayStudent Details() { System.out. println ("USN:" + USD); By stem. out. porintln ("Name!" + name); Systemout - println(" Semester: "+ sem);



Mintemals.java

package CIE;

import java-util. Scannes;

public class internals extends students

protected int marks[] = new int[5];

public void input (1 € marke () {

Scanner se = new Scanner (system.in);
System.out.println ("Enter Internal ments
for:" + name);

for (int 1=0; i<5; i++)

System. out. println ("Subject "+(i+1)+
"make: ");

marts (i) = scnextInt();

classmate

Hexternal java

Package SEE;

import CIE internals; import java util scannes;

public class enternal extends internals f protected int markers; protected int final markers;

public enternal() {
marks = new marks (5); finalmaits = New in(5);

public void input sermaiks () of Scanner SC = new Scanner (System. in); System. out. println ("Enter SEE mades" + name);

for (int i=0; i<5; i++)

System. out.println ("Subject"+(?+1)+ "maits: ");

martsli] = 800 8c. next (n+();

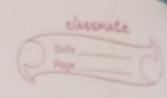
public void calculate Final Marks () f
for (int i=0; i<5; i++) {

} final Marci [i] = marts [i] /2 + super. marg

public void display Final Marks () display Student Details (); for (int 1=0; 1<5; 1++) System. out println ("Subject: "+(i+1) + ":" + final Marks [i)); Il final mouts. java. import SEE. externat; public chis final marts of public static void main (String args[]) int num of studen H = 2; enternal final Marti () = new external [numofstudents];

for (int i=0; i< num of students; i++)

final marks[i] = new external();
final marks[i]. input Student Details();
System out pointles ("Enter CIE marks");
final marks (i). input (IE marks();



System out println ("Enter SEE maits")
finalmarks [1], inputseEmarts();

System out printle ("Displaying date: \n")

for (int 1=0; ic numofstodents; 1++)

finalmarks (i). calculate final marts (). final marts (i). dis play Final marts ().

Output:

Enter USN:12

Enter name: Shreya

Enter sem: 3

Enter CIE mails

Enter Internal marks for Shreya

Subject 1 marks: 33

Bubject & marti: 23

Subject 3 marti 22

Subject 4 marts: 33

Enter Stt marts for straya

Subject 1 marts: 89

Subject & mouth: 90

Date Page gubject 2 mant: 99 Subject 4 marks: 88 Pubject 5 marks: 89 entor USN: 22 enter Name: Praneeta Enter sem: 3 Enter CIE maits for Praneeta: Rubject I marts: 34 Subject & marks: 20 subject 3 maid: 34 Subject 4 marts: 45 Subject 5 marks: 22 Enter SEE marts for poanecta: Subject I marks 78 subject 2 mails: 8 subject 3 mails: 89 subject 4 maits: 90 subject 5 marts: 99 Displaying data: GI:MZU Name: Shorya Semester: 3 Rubject 1: BJ subject 2: 48 Subject 3: 71 Subject 4: 77 Subject 5: 55

