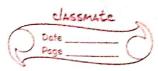


```
clarx Test extends Students
  double cie Morke[] = new double[5]:
   int credita [] = new int [s].
   int total credits = 0:
  void set Cie Defails () ¿
     for (int i=0; i < cieMarks.length, i++) &
       System. out. println ("Enter CIF marks (50)
                  in Coune" + (i+1) + ":");
     cieMarks[i] = SC-nextDouble();
     Systemooutiprintly C'Enter credity of Course"+
                   Ci+1) + ";");
     credit[c] = sc. nest Intc)
    total Credits += Credits [i]
 Class Exam extends Test?
    double SeeMarke []= new double [5];
    double totalmarke[] = new double [5];
    int tot Credita = Super. total ore dite;
    void set see Detaile () {
       for (int [=0; i < cieMorks.length; i++){
        System. out. printly ("Enter SEE marks (100)
           in course" + (i+1) + ": ");
        See Mark[i] = sc. nept Double () /2;
      Calc Total Marke ();
     void calc Total Marke () {
       for (int i=0; i < 5; i++) {
         total Marke [i] = cie Marke [i] + see Marke [i].
```



```
class Result extends Exam ?
   char grades [] = new char [5].
   double sgpa = 0;
   int points []= new int [5].
  Void Colcsapa () {
     for Cint i=0; i < 5; i++) {
       if Ctotal Marky [i] Z100) {
       System. out. println ("Error : Marks areals
       return;
    3 elleif (total Mapping [i] 7=90) }
     pointy [i]=10.
   9 ele if (total Mark [i] 7= 80) }
     points [i] = q;
    3 elee if (total Mark [i] = 70) {
     point [i]= 8.
   } else if (+o+au Marks[i] >=60) {
    point [i] =7.
    ? else if (total Mark [i] 7=50) {
     points [i]=5;
    I elle if Ctotal Morks [c) 7=40) {
     points[i] = 4;
    g eye ?
          points[i]=0.
     Sgpa = Cpoint [i] * credita [i]
 Void Calc Grade C) }
   for Cint (=0; i < 5; i+1){
    if Ctotal Marks [i] 7100) {
   System. But printin ("Error: Marke are about
    return.
```



```
I clsc if CtofalMarly [i] 7 = 90) {
    grades [i] = 's>.
  3 ele if (total MaxI4[i] 7=80) {
      grades[c] = 'A);
  } else if (total Marly [i] 7= 70) }
    grades [i] = 'B';
  ? ele if (total Mark[i] 7 = 60) $
    grades [i] = 'C';
  Jelie if (total Mark [i] 7=50) }
     grades[i] = 'D'.
  Jelie if CtotalMark([c] 7=40)}
    grades[i]= 'E';
  7 die ?
    points [i] = `F';
Void get SGPA() {
 System. Out. formut ("Sapa is ". . 2 f")
                ( sopa / total (Credite));
 roid getander() {
   for (int i=0; i <5; i++) }
    System. out. printly ("Subject"+ Ci+1)+";"+
              grades[i]);
public clays SEPAcal Culators
  public Static Void main (String [] args) {
  int m=0.
```

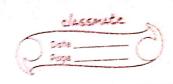


Scanner sc= new Scanner (System.in): System. out. printly ("Enter Number of Students"); n= Sc. nept Int (); Result results [] = new Result [n]; for (int i=0; i <n; i++) { reguly[i]= na Regult (). result [i] · Set Stu Details(); result [i]. Set Cie betaile(); result [i] · Set See Details (): resultation calc Sig pac); resulti[i]. colograde (); resulfici]. getsappacs. mente [i]. getgrades();

9)	Develop a Java program to create a dals		
4	player with member variables name,		
	matches-played & average? This class has 97		
	abstract method cal-average Cstring, int, int).		
	Derive two dayres BATSMAN & BONLER From		
	PLAYER. Clas BATSMAN has a member variable		
	yang-screed, class BOWLER has a member		
	Variable Yung-given. Create in BATSMAN		
	objects & n BONLER Objects. Calculat &		
	display the average rung scored by each		
	BATSMAN & average rung given by		
	each BOULER.		
	import java·wil. *;		
	DECAMBA ONE		
	abstract class player ?		
	String name;		
	int matchesplayed;		
	double avg:		
Scanner S = new Scanner (System.in).			
	h die China an Hlame ().		
	abstract public String getName ();		
	abstract public voi à Set Name(); abstract public int getratores ().		
	abstract public void set Matches ().		
	abstract public double get Avg Sove ().		
	abstract public void set Avg Score ().		
	abstract public void print Data ().		
	2 Charles and tall		
	Jan Hardington Park Made		
	class Bataman extends Player &		
	private double rung scored;		
-			
-	public Batsman () {		

System out print in ("Enter both man nome. SetName (). System. out printin ("Enter total rung scored from all matches."); Set Rung Scored (); @overnide public double get Avg Score () } yeturn ang; @ overnide public void Set Avg Score() & thip. avg = get Rums sored () / get matches (). @ Overnde Public Void printData () { sexAvgsaraci; System. Out . println C' Name = "+ thip get Name ()+" In Total rungsared = " + thip. get Rung Scored ()+ In Average some = "+ thin get Avysom (1); Clase Bowler cotends player & private double rungiven; public Bowler C) { Schoota (); @ override

-	public String getNome() {
-	return this name;
	1 leton set of representation
	The said shows thou with
	@ overnide
	public void SetNome () {
	String name = SimeztLine();
	this name = name;
	27 A Carlotte Contract of March . C. Call A. C.
	The same of the sa
	@overgride
	public int getMatches () {
	return matches Played;
	18 Domestivation blow of the
T Rosa	Maps fee I when I was too E a vio 1201
- No	Qoverride
	public void SetMatcher () }
	int matches = S. nept Int():
	thip-matchesplayed= matches;
	January Caracter Caracter
+	Garage Control of the
	a override
	public double get AvgScore() {
	return ang.
	Dublic de Maria
	public double getRunggiven() {
	return thix rungiven:
	public void C+n
	public void Setlung Given () {
	double rune = S. rept Double ();
	3 thix. rung given = rung.



public void setData() ? }
public void setData() { { system.out.println("Enter bowler name.")}
Cet Name().
suffer out printly ("enter total number of
matches.");
matches:"); Sight Matches (); System.out. println ("Enter total rung given from all matches.");
system. out. println ("Enter total king given
from all matches.").
Setfung(iven();
3
@ override
public void SetAvgSareO { this avg = getRungGiven() / getMatches().
this avg = get Rung given () / get Matches ()
3
Public Void Print Data O E
public void print Data CI E
SetAvgSare(); System. Out. printly ("Name = " + this. getName()+
System. Out. print (prant = " + this get ringing
+ In Average Score = " + thix get Avg Score ();
+ In Average Score = " + thix get Avg Score();
4
Y
al an along Ava 3
Class player Avg { public Static void main (String [] orgs) {
scanner s= new scanner(system.in).
) CANIO.
System. Out. println ("Enter rymber of
paramen
The state of the s
player bat [] = new Bataman [m];
The state of the s



	Date Page
	System: out print (n ("Enter number of bowle
	n= S. next Int ();
	player ball [] = new Bowler [n].
	were out point in Inter to take wante
	for (i=0; i < m; i++) {
	bat[i] = new Batsman():
	bat [i]. print Data ().
	from all matches " 12 of
	Te thorn Giren O.
	for (i=0; i < n; i++) {
	bul[i] = new Bowler().
	ball [i] = print Dato().
+	Jan & Days post of bing side
	this my: not suns given a particular
	}
	31/10/07/07/07
	the wind with the same
	an with a state of the control of th
	Charling to a solid design of the solid of t
	The second of th
	The state of the s
	the second secon
	and the first business bird where he will
	The control of the second of the second