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```java
import java.util.Scanner;
abstract class Player {

String name;

int    no_match;

float avg;

abstract float cal_avg (String p_name, int
    no_m, int runs);

}
class batsman extends player {
    int run_taken;

    float cal_avg (String name, int no_match,
        int runs_taken)

    {
        return (runs_taken / no_match);

    }
    void get Data()

    {
    Scanner sc = new Scanner(System.in);
    System.out.println ("Enter number of
        matches played :");
```

```java
no_match = sc.nextInt();
System.out.println("Enter total runs scored:");
runs_taken = sc.nextInt();
}

class bowler extends Player {
    int runs_given;
    float cal_avg(string name, int no_match,
    int runs_given)
    {
        return (runs_given / no_match);
    }
    void getData()
    {
        Scanner sc = new Scanner(system.in);
        System.out.println("Enter bowler name:");
        in order name = sc.next();
        System.out.println("Enter no. of matches
        played");
        no_match = sc.nextInt();
    }
}
```

```java
public class player main {
    public static void main (string args [])
    {
        Scanner sc = new Scanner (system. in);
        int m, n, i;
        System. out. println ("Enter no. of batsman and
        bowler : ");
        m = sc. nextInt ();
        n = sc. nextInt ();
        Player [] p = new Player [m + n];
        bb()
        batsman [] b = new batsman [m]*;
        bowler [] bow = new bowler [m];
        for (i = 0; i < m; i++)
        {
            b[i] = new batsman ();
            b[i]. get data ();
        }
        System. out. println ("Batsmen: ");
        for (i = 0; i < m; i++)
        {
```

```java
System.out.println ("Name : "+ b[i]. name+ "\n Average
runs scored :" + b[i].runs _taken));
    System.out.println ("_ _ _ _ _ ");

}

system.out.print ln ("Name "+ bow[i].name+ "\n
    Average runs given : " + bow[i]. cal_avg
    (bow [i]. name , bow [i].no_match, bowl[i].
    runs_given ));
    System.out.println ("_ _ _ _ _");

    }

}

}
```

```java
import java.util.scanner;
class student {

    string name;
    string usn;
    int sem;

}

class Test extends Test{

    float res = 0;

    void getData (int n)

    { scanner sc = new scanner scanner (syst.in);

    System.out.print ln ("Enter student name,
    usn and sem : ");
    name = sc.next ();
    usn = sc.next ();
    sem = sc. next Int ();
    for (int i=0; i<5; i++);
```

```java
for (int i=0; i<5; i++)
{
    system.out.println("Enter CIE and SEE marks
    of sub" + (i+1) + ": ");
    cie [i]= sc.nextfloat();
    see [i] = sc.nextfloat();
    system.out.println("Enter credits of sub"+

        (i+1)+ ": ");
    credits [i]= sc.nextint();

    }

}
void do calc ()
{
    float total =0;
    for (int i =0; i<5; i++)
    {
        res = res + grade (cie [i]+see [i]*credits[i]
        total = total + credits [i];
    }
    res = res /total;

}
float grade (float t)
{
```

```java
        if (t >= 90) return 10;
        if (t >= 80) return 9;
        if (t >= 70) return 8;
        if (t >= 60) return 7;
        if (t >= 50) return 5;
        if (t >= 40) return 4;
        return 3;
    }

    void display (int n)
    {
        for (int i = 0; i < n; i++)
        {
            System.out.println ("Name : " + name +
            "\n sem : " + sem + "\n CGI
            : " + res);
        }
    }
}
public class student M {
```

```java
public static void main (string args[])
{
    int n;

    scanner sc = new sanner (system. in);
    system. at. print ln ("Enter the no. of student:");

    n = sc. next int ();

    studen []s = new student [n];

    Test [] t = new Test [n];

    Exam []e = new Exam [n];

    Result []r = new Result [n];

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

    {
        s[i] = new student ();
        t[i] = new Test ();
        e[i] = new Exam ();
        r[i] = new Results();
        r[i].get data (n);
        r[i].calc ();
        r[i].display (n); }

    }
}
```