1	Date
2.	import java-util-Scanner
	abstract class PLAYER
	8
	String name;
	int matches-played;
	double average
	abstract void ial-average (string of int matches
	2
	class BATSMAN extends PLAYER
	2
	int nuns evered;
	void cal-average (String n, int matches, int rung
	1
Et.	name=n;
	matches played - matches
	run-scorell = runs
	average = (double) suns_scored/matches played;
	3
	daes Bowler extends PLAYER
. 3	C
	int guns-given;
	void calaberage (8 truing or, int mat the int rung)
100	C The state of the
	name-n;
	matches played = matches;
	runs & concide quini
	average = (double) nuns given/matches played;
	3
	3
	class PLAYERMain
	Q
	public static void main (sitaing args [])
	12

int i, m, n, matcher, runs; String Name; Scanner sc= new Scanner (System in): System out printled "Enter the number of batsmen & the number of bowlers"); M=screatinte) n=10. next Int(). BATSMAN basc] = New BATSMAN CMJ; BOWLER bowlj: new BOWLERINJ. for li=01 icm; v++) battij-new BATSMANC); System out println ("Enter"+ (i+1)+" bate manie name, rulmber of matches played and suns scored"); Name = schusting; matchel = screet Int(); batti I (al average (Name, matches, runs); for li=0; icn; itt) bowlij: new BowlERCY Sustem-out printly ("Ender" + (i+)+" bowlers name, number of matches played and suns given"); Name = schext(); matches - sevent Int (); bow Cil. (al average (Norme, weatcher, sund) lor (1=0) i(m; i+) System. out println(" The average guns swed by " + citi)+" batsman is: " + but [i]. average) for W=0; icn; itt E System out println ("The average nuns given by + city) + "bowler is: "+ bowcitaverage 333

```
import java.util.Scanner;
abstract class PLAYER
 String name;
 int matches_played;
 double average;
 abstract void cal_average(String n,int matches,int runs);
}
class BATSMAN extends PLAYER
 int runs_scored;
 void cal_average(String n, int matches, int runs)
 {
  name=n;
  matches_played=matches;
  runs_scored=runs;
  average=(double)runs_scored/matches_played;
 }
}
class BOWLER extends PLAYER
{
 int runs_given;
 void cal_average(String n, int matches, int runs)
 {
  name=n;
  matches_played=matches;
  runs_given=runs;
  average=(double)runs_given/matches_played;
 }
```

```
}
class PLAYERMain
 public static void main(String args[])
 {
  int i,m,n,matches,runs;
  String Name;
  Scanner sc=new Scanner(System.in);
  System.out.println("Enter the number of batsmen and the number of bowlers");
  m=sc.nextInt();
  n=sc.nextInt();
  BATSMAN bat[]=new BATSMAN[m];
  BOWLER bow[]=new BOWLER[n];
  for(i=0;i<m;i++)
  {
   bat[i]=new BATSMAN();
   System.out.println("Enter "+(i+1)+" batsman's name, number of matches played and runs scored");
   Name=sc.next();
   matches=sc.nextInt();
   runs=sc.nextInt();
   bat[i].cal_average(Name,matches,runs);
  }
  for(i=0;i<n;i++)
  {
   bow[i]=new BOWLER();
   System.out.println("Enter "+(i+1)+" bowler's name, number of matches played and runs given");
   Name=sc.next();
   matches=sc.nextInt();
   runs=sc.nextInt();
```

```
bow[i].cal_average(Name,matches,runs);
  }
  for(i=0;i<m;i++)
  {
   System.out.println("The average runs scored by "+(i+1)+" batsman is: "+bat[i].average);
  }
  for(i=0;i<n;i++)
  {
   System.out.println("The average runs given by "+(i+1)+" bowler is: "+bow[i].average);
  }
 }
}
C:\Users\Adithi\Desktop\java_prgs>java PLAYERMain
Enter the number of batsmen and the number of bowlers
Enter 1 batsman's name, number of matches played and runs scored
batsman1
150
Enter 2 batsman's name, number of matches played and runs scored
batsman2
150
Enter 1 bowler's name, number of matches played and runs given
bowler1
40
The average runs scored by 1 batsman is: 50.0
The average runs scored by 2 batsman is: 30.0
The average runs given by 1 bowler is: 10.0
C:\Users\Adithi\Desktop\java prgs>
```