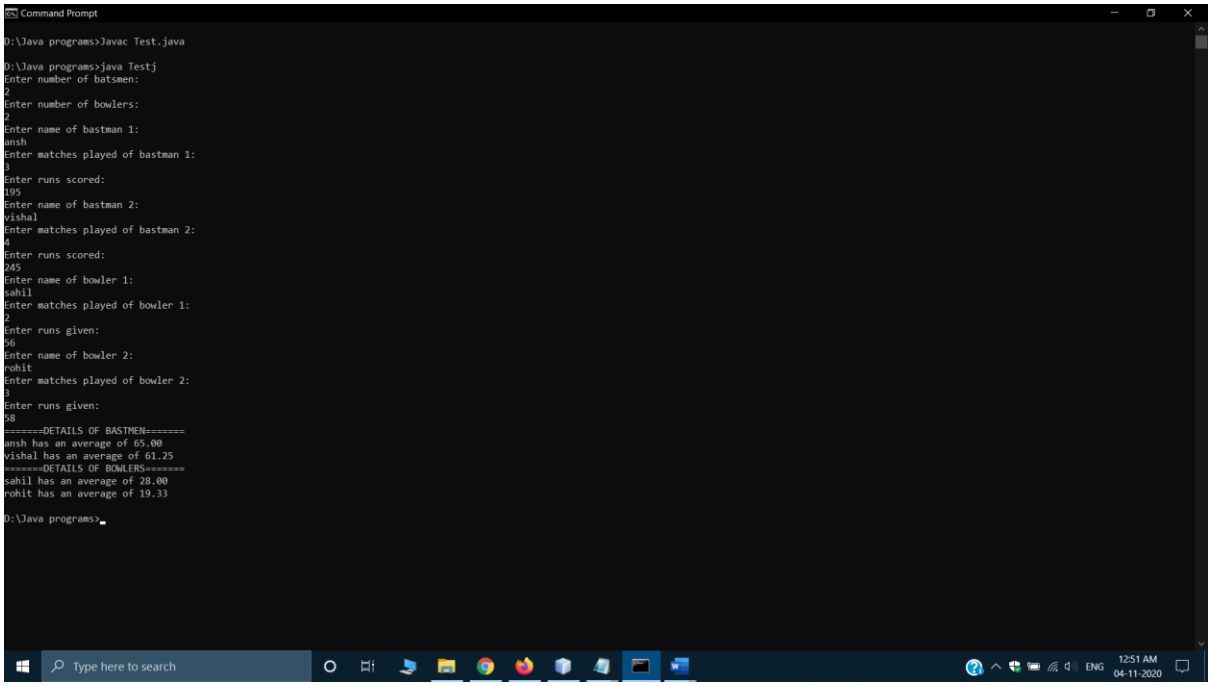
```
import java.util.Scanner;

abstract class PLAYER{
   String name;
   int matches_played;
   double average;
   abstract void cal_average(String name,int mp,int r);
}

class BATSMAN extends PLAYER{
   int runs_scored;
   void setRuns_Scored(int runs){
      runs_scored = runs;
   }

   void cal_average(String playerName,int matchesPlayed, int runsScored){
      name = playerName;
      matches_played = matchesPlayed;
      average = (double)runsScored/matchesPlayed;
   }

}
class BOWLER extends PLAYER{
   int runs_given;
   void setRuns_Given(int runs){
      runs_given = runs;
   }

   void cal_average(String playerName,int matchesPlayed, int runsGiven ){
      name = playerName;
      matches_played = matchesPlayed;
```

```
        average = (double)runsGiven/matchesPlayed;
    }

}

public class Testj{
    public static void main(String[] args) {
        int m,n,matches_played,runs;
        String name;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter number of batsmen: ");
        m = sc.nextInt();
        System.out.println("Enter number of bowlers: ");
        n = sc.nextInt();
        if(m <= 0 || n<=0){
            System.out.println("Enter only +ve values of m and n");
            System.exit(1);
        }

        BATSMAN batsmen[] = new BATSMAN[m];
        BOWLER bowlers[] = new BOWLER[n];

        for(int i=0;i<batsmen.length;i++){
            System.out.println("Enter name of bastman " + (i+1) + ": ");
            name = sc.next();
            System.out.println("Enter matches played of bastman " + (i+1) + ": ");
            matches_played = sc.nextInt();
            System.out.println("Enter runs scored: ");
            runs = sc.nextInt();
            batsmen[i] = new BATSMAN();
            batsmen[i].cal_average(name, matches_played, runs);
```

```
        }
        for(int i=0;i<bowlers.length;i++){
           System.out.println("Enter name of bowler " + (i+1) + ": ");
           name = sc.next();
           System.out.println("Enter matches played of bowler " + (i+1) + ": ");
           matches_played = sc.nextInt();
           System.out.println("Enter runs given: ");
           runs = sc.nextInt();
           bowlers[i] = new BOWLER();
           bowlers[i].cal_average(name, matches_played, runs);
        }
        System.out.println("=======DETAILS OF BASTMEN=======");
        for(int i=0;i<batsmen.length;i++){
           System.out.format("%s has an average of %.2f\n",batsmen[i].name,batsmen[i].average);
        }
        System.out.println("=======DETAILS OF BOWLERS=======");
        for(int i=0;i<batsmen.length;i++){
           System.out.format("%s has an average of %.2f\n",bowlers[i].name,bowlers[i].average);
        }


    }
}
```


Command Prompt
D:\Java programs>Javac Test.java
D:\Java programs>java Testj
Enter number of batsmen:
2
Enter number of bowlers:
2
Enter name of bastman 1:
ansh
Enter matches played of bastman 1:
3
Enter runs scored:
195
Enter name of bastman 2:
vishal
Enter matches played of bastman 2:
4
Enter runs scored:
245
Enter name of bowler 1:
sahil
Enter matches played of bowler 1:
2
Enter runs given:
56
Enter name of bowler 2:
rohit
Enter matches played of bowler 2:
3
Enter runs given:
58
=======DETAILS OF BASTMEN=======
ansh has an average of 65.00
vishal has an average of 61.25
=======DETAILS OF BOWLERS=======
sahil has an average of 28.00
rohit has an average of 19.33
D:\Java programs>
Type here to search
ENG
12:51 AM
04-11-2020