Date:- 27 October 2020, Name :- Hritik Singh , USN:- 1BM19CS063

Extra Programs Week - 7:-

Q2. Input:-

```
import java.util.Scanner;
abstract class PLAYER
{ String name;
  int matches_played;
  double average;
  abstract void cal average();
}

class BATSMAN extends PLAYER
{ int runs_Scored;
  void getd()

  { Scanner get = new Scanner (System.in)
    System.out.println ("\n Name of batsman:");
    name = get.next();
    System.out.println (" Matches played by batsman: ");
    matches_played = get.next Int();
    System.out.println (" Total runs scored by batsman:");
    runs_scored = get.next Int();
  }

  void cal_average()
  { System average = runs scored / matches played;
    System.out.println ("Name of batsman,:" + name);
    System.out.println (" Matches played by batsman:" + matches_played)
    System.out.println (" Total runs scored by batsman:" +runs_scored);
    System.out.println (" Average Runs saved by batsman:" + average);
  }
}
```

Date :- 27 October 2020 , Name :- Hritik Singh , USN - 1BM 19CS063.

```java
class BOWLER extends PLAYER.
{ int runs_given;
  void getd ().
  { Scanner get = new (System.in);
    System.out.println ("\n Name of bowler:");
    name = get.next ();
    System.out.println (" Matches played by bowler:");
    matches_played = get.nextInt ();
    System.out.println (" Total runs given by bowler.");
    runs_given = get.nextInt ();
  }

  void cal-average ()
  { average = runs_given / matches_played;
    System.out.println (" \n Name of bowler" + name):
    System.out.println (" Matches played by the bowler:" + matches_played);       // matches_played
    System.out.println (" Total runs given by bowler: " + runs_given);             // runs_given
    System.out.println (" Average Runs given by bowler:" + average).
  }
}

class player IntMain
{ public static void main (String ss[])
  { Scanner get = new (System.in);
    int m, n:
    System.out.println (" Enter number of batsman");
    m = get.nextInt ();
    BATSMAN bats[] = new BATSMAN[n];
    System.out.println (" Enter the no. of bowlers");
    n = get.nextInt ();
    BOWLER bowl[] = new BOWLER[n];
    System.out.println (" Enter batsman details : \n");
```

Date: 27 October 2020, Name :- Hritik Singh, USN :- 1BM29CS06?

```
for ( int  i=0; i < m ; i++)
{   $ bats [i] = new BATSMAN ();
    bats [i]. get d ();      }
for ( int i =0 ; i < m ; i++)
{   bats [i]. cal - average ();
System . out . println . (" Enter bowler details : \n ");

for ( int  i=0; i < n ; i++)
{   bowl [i] = new BOWLER();
    bowl [i]. get d ();  }
for ( int  i = 6 ; i < n ; i++)

{
    bowl [i]. cal average ();}
}
}
```

Output of the above Program :-

Enter number of batsman
2 1
Enter the no. of bowler
2 1
Enter batsman details :
Name of batsman :
 Kohli
 Matches played by batsman :
 30
 Total runs scored by batsman.
 300

Date :- 27 October 2020 , Name :- Hritik Singh . USN:- JBM 19CS063.

Name of batsman : Kohli
Matches played by batsman : 30
Total Runs scored by batsman : 300
Average runs scored by batsman : 10.0.

Name of bowler :
hardik
Matches played by bowler.
34
Total runs given by bowler:
20 .

Name of bowler : hardik
Matches played by bowler: 34.
Total runs given by bowler: 20.
Average runs given by bowler : 0.0

File   Edit   Search   View   Encoding   Language   Settings   Tools   Macro   Run   Plugins   Window   ?

f.txt   wwww.java   whathappened.java   practicehelloworld.java   PalindromeString.c   xyzw.java   segment.java   samsung.java   book1.java   Playermain.java

```
37        System.out.println("\nName of bowler:");
38        name= get.next();
39        System.out.println("Matches played by bowler:");
40        matches_played=get.nextInt();
41        System.out.println("Total runs given by bowler:");
42        runs_given=get.nextInt();
43    }
44    void cal_average()
45    { average=runs_given/matches_played;
46        System.out.println("\nName of bowler: "+name);
47        System.out.println("Matches Played by bowler: "+matches_played);
48        System.out.println("Total Runs Given by bowler: "+runs_given);
49        System.out.println("Average Runs Given by bowler: "+average);
50        }
51 }
52
53    class playerInhMain
54    { public static void main(String args[])
55    { Scanner get=new Scanner(System.in);
56        int m,n;
57        System.out.println("Enter number of batsman");
58        m=get.nextInt();
59        BATSMAN bats[]=new BATSMAN[m];
60        System.out.println("Enter the no of bowlers");
61        n=get.nextInt();
62        BOWLER bowl[]=new BOWLER[n];
63        System.out.println("Enter batsman details;\n");
64
65        for(int i=0;i<m;i++)
66        { bats[i]=new BATSMAN();
67          bats[i].getd();    }
68        for(int i=0;i<m;i++)
69        { bats[i].cal_average();    }
70 System.out.println("Enter bowler details;\n");
71
72        for(int i=0;i<n;i++)
73        { bowl[i]=new BOWLER();
74          bowl[i].getd();    }
75        for(int i=0;i<n;i++)
76        { bowl[i].cal_average(); }
77    }
78 }
79
80
```

Java source file   length : 2,205   lines : 80   Ln : 60   Col : 25   Sel : 0 | 0   Windows (CR LF)   UTF-8   INS

Command Prompt - java playerInhMain

```
Name of batsman:
Kohli
Matches played by batsman:
30
Total runs scored by batsman:
300

Name of batsman:
rishi
Matches played by batsman:
20
Total runs scored by batsman:
200

Name of batsman: Kohli
Matches Played by batsman: 30
Total Runs Scored by batsman: 300
Average Runs Scored by batsman: 10.0

Name of batsman: rishi
Matches Played by batsman: 20
Total Runs Scored by batsman: 200
Average Runs Scored by batsman: 10.0
Enter bowler details;

Name of bowler:
```

ftxt | wwww.java | whathappened.java | practicehelloworld.java | PalindromeString.c | xyzw.java | segment.java | samsung.java | book1.java | Playermain.java

```java
import java.util.Scanner;

abstract class PLAYER
{ String name;
   int matches_played;
   double average;

   abstract void cal_average();
}

class BATSMAN extends PLAYER
{ int runs_scored;

   void getd()
   { Scanner get=new Scanner(System.in);
     System.out.println("\nName of batsman:");
     name= get.next();
     System.out.println("Matches played by batsman:");
     matches_played=get.nextInt();
     System.out.println("Total runs scored by batsman:");
     runs_scored=get.nextInt();
   }
   void cal_average()
   { average=runs_scored/matches_played;
     System.out.println("\nName of batsman: "+name);
     System.out.println("Matches Played by batsman: "+matches_played);
     System.out.println("Total Runs Scored by batsman: "+runs_scored);
     System.out.println("Average Runs Scored by batsman: "+average);
     }
}

class BOWLER extends PLAYER
{ int runs_given;

   void getd()
   { Scanner get=new Scanner(System.in);
     System.out.println("\nName of bowler:");
     name= get.next();
     System.out.println("Matches played by bowler:");
     matches_played=get.nextInt();
     System.out.println("Total runs given by bowler:");
     runs_given=get.nextInt();
   }
   void cal_average()
```

Command Prompt - java playerInhMain

```
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\hriti>cd..

C:\Users>\cd..
'\cd..' is not recognized as an internal or external command,
operable program or batch file.

C:\Users>cd..

C:\>cd C:\Users\hriti\Documents

C:\Users\hriti\Documents>javac Playermain.java

C:\Users\hriti\Documents>java playerInhMain
Enter number of batsman
2
Enter the no of bowlers
2
Enter batsman details;

Name of batsman:
Kohli
Matches played by batsman:
30
Total runs scored by batsman:
300
```

Java source file   length : 2,205   lines : 80   Ln : 60   Col : 25   Sel : 0 | 0   Windows (CR LF)   UTF-8   INS

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Tabs: fbt | wwww.java | whathappened.java | practicehelloworld.java | PalindromeString.c | xyzw.java | segment.java | samsung.java | book1.java | Playermain.java

```java
37        System.out.println("\nName of bowler:");
38        name= get.next();
39        System.out.println("Matches played by bowler:");
40        matches_played=get.nextInt();
41        System.out.println("Total runs given by bowler:");
42        runs_given=get.nextInt();
43     }
44     void cal_average()
45     { average=runs_given/matches_played;
46        System.out.println("\nName of bowler: "+name);
47        System.out.println("Matches Played by bowler: "+matches_played);
48        System.out.println("Total Runs Given by bowler: "+runs_given);
49        System.out.println("Average Runs Given by bowler: "+average);
50        }
51 }
52
53 class playerInhMain
54 { public static void main(String args[])
55   { Scanner get=new Scanner(System.in);
56     int m,n;
57     System.out.println("Enter number of batsman");
58     m=get.nextInt();
59     BATSMAN bats[]=new BATSMAN[m];
60     System.out.println("Enter the no of bowlers");
61     n=get.nextInt();
62     BOWLER bowl[]=new BOWLER[n];
63     System.out.println("Enter batsman details;\n");
64
65     for(int i=0;i<m;i++)
66     { bats[i]=new BATSMAN();
67       bats[i].getd();    }
68     for(int i=0;i<m;i++)
69     { bats[i].cal_average();    }
70 System.out.println("Enter bowler details;\n");
71
72     for(int i=0;i<n;i++)
73     { bowl[i]=new BOWLER();
74       bowl[i].getd();    }
75     for(int i=0;i<n;i++)
76     { bowl[i].cal_average(); }
77   }
78 }
79
80
```

Command Prompt

```
Total Runs Scored by batsman: 200
Average Runs Scored by batsman: 10.0
Enter bowler details;

Name of bowler:
hardik
Matches played by bowler:
34
Total runs given by bowler:
20

Name of bowler:
hitori
Matches played by bowler:
39
Total runs given by bowler:
0402

Name of bowler: hardik
Matches Played by bowler: 34
Total Runs Given by bowler: 20
Average Runs Given by bowler: 0.0

Name of bowler: hitori
Matches Played by bowler: 39
Total Runs Given by bowler: 402
Average Runs Given by bowler: 10.0

C:\Users\hriti\Documents>
```

Java source file   length : 2,205   lines : 80   Ln : 60   Col : 25   Sel : 0 | 0   Windows (CR LF)   UTF-8   INS