

Practical 7

```
1 package practical6;
2 import java.util.*;
3
4 // base class
5 class Player {
6     String name;
7     int age;
8     String team;
9
10    Player(String name, int age, String team) {
11        this.name = name;
12        this.age = age;
13        this.team = team;
14    }
15
16    void displayInfo() {
17        System.out.println("Name: " + name);
18        System.out.println("Age: " + age);
19        System.out.println("Team: " + team);
20    }
21 }
22
23 class Cricket_Player extends Player {
24     String role;
25
26    Cricket_Player(String name, int age, String team, String role) {
27        super(name, age, team);
28        this.role = role;
29    }
30
31    void displayInfo() {
32        System.out.println("\n--- Cricket Player Details ---");
33        super.displayInfo();
34        System.out.println("Role: " + role);
35    }
36 }
37
38 class Football_Player extends Player {
39     String position;
40
41    Football_Player(String name, int age, String team, String position) {
42        super(name, age, team);
43        this.position = position;
44    }
45
46    void displayInfo() {
47        System.out.println("\n--- Football Player Details ---");
48        super.displayInfo();
49        System.out.println("Position: " + position);
50    }
51 }
52
53
```

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54 class Hockey_Player extends Player {
55     String stickBrand;
56
57     Hockey_Player(String name, int age, String team, String stickBrand) {
58         super(name, age, team);
59         this.stickBrand = stickBrand;
60     }
61
62     void displayInfo() {
63         System.out.println("\n--- Hockey Player Details ---");
64         super.displayInfo();
65         System.out.println("Stick Brand: " + stickBrand);
66     }
67 }
68
69 public class Main {
70     public static void main(String[] args) {
71         Scanner sc = new Scanner(System.in);
72
73         // for cricket details
74         System.out.println("Enter Cricket Player details:");
75         System.out.print("Name: ");
76         String cName = sc.nextLine();
77         System.out.print("Age: ");
78         int cAge = sc.nextInt();
79         sc.nextLine();
80         System.out.print("Team: ");
81         String cTeam = sc.nextLine();
82         System.out.print("Role (Batsman/Bowler): ");
83         String cRole = sc.nextLine();
84         Cricket_Player c = new Cricket_Player(cName, cAge, cTeam, cRole);
85
86         // for football details
87         System.out.println("\nEnter Football Player details:");
88         System.out.print("Name: ");
89         String fName = sc.nextLine();
90         System.out.print("Age: ");
91         int fAge = sc.nextInt();
92         sc.nextLine();
93         System.out.print("Team: ");
94         String fTeam = sc.nextLine();
95         System.out.print("Position (Goalkeeper/Forward): ");
96         String fPosition = sc.nextLine();
97         Football_Player f = new Football_Player(fName, fAge, fTeam, fPosition);
98
99         // for hockey details
100        System.out.println("\nEnter Hockey Player details:");
101        System.out.print("Name: ");
102        String hName = sc.nextLine();
103        System.out.print("Age: ");
104        int hAge = sc.nextInt();
105        sc.nextLine();
106        System.out.print("Team: ");
107        String hTeam = sc.nextLine();
108        System.out.print("Stick Brand: ");
109        String hStick = sc.nextLine();
110        Hockey_Player h = new Hockey_Player(hName, hAge, hTeam, hStick);
111
112

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112         c.displayInfo();
113         f.displayInfo();
114         h.displayInfo();
115
116         sc.close();
117     }
118 }
119
120 Output :
121
122 Enter Cricket Player details:
123 Name: Rohit Sharma
124 Age: 35
125 Team: India
126 Role (Batsman/Bowler): Batsman
127
128 Enter Football Player details:
129 Name: Cristiano Ronaldo
130 Age: 39
131 Team: Portugal
132 Position (Goalkeeper/Forward): Forward
133
134 Enter Hockey Player details:
135 Name: Harmanpreet Singh
136 Age: 30
137 Team: India
138 Stick Brand: TK
139
140 --- Cricket Player Details ---
141 Name: Rohit Sharma
142 Age: 35
143 Team: India
144 Role: Batsman
145
146 --- Football Player Details ---
147 Name: Cristiano Ronaldo
148 Age: 39
149 Team: Portugal
150 Position: Forward
151
152 --- Hockey Player Details ---
153 Name: Harmanpreet Singh
154 Age: 30
155 Team: India
156 Stick Brand: TK
```