



SCTR's PUNE INSTITUTE OF COMPUTER TECHNOLOGY PUNE - 411043

Department of Electronics & Telecommunication Engineering (E&TE)

ASSESSMENT YEAR: 2023-2024

CLASS: TE

BATCH:-N5

SUBJECT: Fundamental of JAVA Programming

Assignment No:7

Roll No: 32203

Date:

Programmer Name: Vasu Agrawal

Batch:N5

Problem Statement:

Demonstrate the concept of inheritance in JAVA by designing a Player class. Inherit the Player class to Cricket_Player, Football_Player and Hockey_Player

```
package EXPT_7;
```

```
import java.util.*;
```

```
class Player
```

```
{
```

```
    String name;
```

```
    int age;
```

```
    String gender;
```

```
    String city;
```

```
    int matches;
```

```
    Scanner obj = new Scanner(System.in);
```

```
    public void get_data()
```

```
    {
```

```
        System.out.println("Enter player details:");
```

```
        System.out.println("Enter Name:");
```

```
        name=obj.next();
```

```
        System.out.println("Enter Age:");
```

```
        age=obj.nextInt();
```

```
        System.out.println("Enter Gender:");
```

```
        gender=obj.next();
```

```
        System.out.println("Enter City:");
```

```
        city=obj.next();
```

```
        System.out.println("Enter Number Of Matches Played:");
```

```
        matches=obj.nextInt();
```

```
    }
```

```
    public void show_data()
```

```
    {
```

```
        System.out.println("Name:"+name);
```

```
        System.out.println("Age:"+age);
```



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```
        System.out.println("Gender:"+gender);
        System.out.println("City:"+city);
        System.out.println("Matches Played:"+matches);
    }
}

class Cricket extends Player
{
    Scanner obj =new Scanner(System.in);
    int run;
    int wicket;
    int MoM;

    public void get_data()
    {
        super.get_data();
        System.out.println("Enter Total Runs Scored:");
        run=obj.nextInt();
        System.out.println("Enter Total Wickets Taken:");
        wicket=obj.nextInt();
        System.out.println("Enter total Man of the Match won: ");
        MoM=obj.nextInt();
    }

    public void show_data()
    {
        super.show_data();
        System.out.println("Enter Total Runs Scored:"+run);
        System.out.println("Enter Total Wickets Taken:"+wicket);
        System.out.println("Enter total Man of the Match won:"+MoM);
    }
}

class Football extends Player
{
    Scanner obj =new Scanner(System.in);
    int goals_scored;
    int goals_defended;
```



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```
int MoM;

public void get_data()
{
    super.get_data();
    System.out.println("Enter Total Goals Scored:");
    goals_scored=obj.nextInt();
    System.out.println("Enter Total Goals Defended:");
    goals_defended=obj.nextInt();
    System.out.println("Enter total Man of the Match won: ");
    MoM=obj.nextInt();
}

public void show_data()
{
    super.show_data();
    System.out.println("Enter Total Goals Scored:"+goals_scored);
    System.out.println("Enter Total Goals Defended:"+goals_defended);
    System.out.println("Enter total Man of the Match won:"+MoM);
}
}

class Hockey extends Player
{
    Scanner obj =new Scanner(System.in);
    int goals_scored;
    String position;
    int MoM;

    public void get_data()
    {
        super.get_data();
        System.out.println("Enter Total Goals Scored:");
        goals_scored=obj.nextInt();
        System.out.println("Enter Position of the player:");
        position=obj.next();
        System.out.println("Enter total Man of the Match won: ");
        MoM=obj.nextInt();
    }
}
```



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```
        public void show_data()
        {
            super.show_data();
            System.out.println("Enter Total Goals Scored:"+goals_scored);
            System.out.println("Enter Position of the Player:"+position);
            System.out.println("Enter total Man of the Match won:"+MoM);
        }
    }

    public class EXPT_7 {

        public static void main(String[] args) {
            // TODO Auto-generated method stub
            Cricket C=new Cricket();
            System.out.println("Cricket Player:");
            C.get_data();
            C.show_data();
            Football F=new Football();
            System.out.println();
            System.out.println("Football Player:");
            F.get_data();
            F.show_data();
            Hockey H =new Hockey();
            System.out.println();
            System.out.println("Hockey Player:");
            H.get_data();
            H.show_data();
        }
    }
```



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OUTPUT:

```
Cricket Player:
Enter player details:
Enter Name:
Virat
Enter Age:
34
Enter Gender:
Male
Enter City:
Delhi
Enter Number Of Matches Played:
300
Enter Total Runs Scored:
18000
Enter Total Wickets Taken:
40
Enter total Man of the Match won:
110
Name:Virat
Age:34
Gender:Male
City:Delhi
Matches Played:300
Enter Total Runs Scored:18000
Enter Total Wickets Taken:40
Enter total Man of the Match won:110
```

```
Football Player:
Enter player details:
Enter Name:
SunilChhetri
Enter Age:
36
Enter Gender:
Male
Enter City:
Pune
Enter Number Of Matches Played:
350
Enter Total Goals Scored:
680
Enter Total Goals Defended:
20
Enter total Man of the Match won:
130
Name:SunilChhetri
Age:36
Gender:Male
City:Pune
Matches Played:350
Enter Total Goals Scored:680
Enter Total Goals Defended:20
Enter total Man of the Match won:130
```



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```
Hockey Player:
Enter player details:
Enter Name:
GurvinderSingh
Enter Age:
35
Enter Gender:
Male
Enter City:
Mumbai
Enter Number Of Matches Played:
250
Enter Total Goals Scored:
148
Enter Position of the player:
CenterForward
Enter total Man of the Match won:
60
Name:GurvinderSingh
Age:35
Gender:Male
City:Mumbai
Matches Played:250
Enter Total Goals Scored:148
Enter Position of the Player:CenterForward
Enter total Man of the Match won:60
```