Assignment #17

# Team and Match Detail

Create a class named **Player** with the following private member variables / attributes.

* String  name;
* String country;
* String skill;

Include appropriate getters, setters and constructors.   
    
Create a class named **PlayerBO** and include the following methods

|  |  |  |
| --- | --- | --- |
| No | Method Name | Method Description |
| 1 | Player createPlayer (String data) | In this method, construct a player object.Split the comma seperated input. |

Create a class named  **Team** with the following private member variables / attributes.

* String  name;
* Player player;

Include appropriate getters, setters and constructors.   
  
Create a class named  **TeamBO**and include the following methods

|  |  |  |
| --- | --- | --- |
| No | Method Name | Method Description |
| 1 | public Team createTeam(String data, Player[] PlayerList) | In this method, parse the string data using Split method defined in the string class and and construct a team object. Iterate through the playerList and get the player object reference. |

Create a class named  **Match** with the following private member variables / attributes.

* String  date;
* Team teamone;
* Team teamtwo;
* String venue
* Team team

Include appropriate getters, setters and constructors.

Override the ToString() method to display the match details in the format specified in the output.   
Use this format String.format("%-15s %-15s %-15s %s", to display match details);   
  
Create a class named  **MatchBO** and include the following methods

|  |  |  |
| --- | --- | --- |
| No | Method Name | Method Description |
| 1 | public Match createMatch(String data, Team[] teamList) | In this method, parse the string data using Split method defined in the string class and and construct a Match object. Iterate through the teamList and get the team object reference. |
| 2 | public team findTeam(String matchDate, Match[] matchList) | In this method, find the Team  that plays a particular match |
| 3 | public void findAllMatchesOfTeam(String teamName, Match[] matchList) | In this method, display all matches of the given team “teamName” |

Create a Program class to test the above 6 classes. In the main method, create an array of Player instances / objects, an array of Team instances / objects and an array of Match instances / objects. Invoke the various methods in the BO class and test them.

**Input and Output Format:**

* Refer sample input and output for formatting specifications.
* All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Input 1:**

Enter the player count

**2**

Enter Player 1 details

**MS Dhoni,India,All Rounder**

Enter Player 2 details

**Virat Kohli,India,All Rounder**

Enter the team count

**2**

Enter team 1 details

**CSK,MS Dhoni**

Enter team 2 details

**RCB,Virat Kohli**

Enter the match count

**2**

Enter match 1 details

**15/09/2015, CSK, RCB, Chidhambaram Stadium**

Enter match 2 details

**28/09/2015, CSK, RCB, Chinnasawmy Stadium**

Menu :

1) Find Team

2) Find All Matches In A Specific Venue

Type 1 or 2

Enter your choice

**1**

Enter Match date

**15/09/2015**

Team

**CSK, RCB**

Do you want to continue? Type Yes or No

**Yes**

Menu:

1) Find Team

2) Find All Matches in A Specific Venue

Type 1 or 2

Enter your choice

**2**

Match Details:

Enter Team Name

**CSK**

Date             TeamOne         TeamTwo         Venue

15/09/2015     CSK             RCB             Chidhambaram Stadium

28/09/2015       CSK             RCB             Chinnasawmy Stadium

Do you want to continue? Type Yes or No

**No**