

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

Do you want to continue? Type Yes or No

No