Project Definition: Virtual Auction System

Brief Description:

- This Virtual Auction System project is related to auction of players in sports like Indian Premier League (IPL). In this project the auctioneer can add the team with the details like Team name and Team Budget.

- Auctioneer can also add players in the player's list with the details like Player name, Player's Base Price, Player's Country and their age.

- After inserting all data like new team and new players, finally the auction begins and details of first player in auction list are displayed.

- Now, team interested in player places the bid and now the price of player will be updated. All the team places bids until all other rivals stop bidding and at last the player is sold to the one who has placed highest bid.

- In case any of the team doesn't place bid for particular player, the player will be declared as unsold. Then the details of next player will be displayed. The Auction process continues till all the players are displayed for auction.

Modules:

➢ Team Registration
➢ Player Registration
➢ Auction Process

Input/Output:

1)

```
*******************************************
        VIRTUAL AUCTION SYSTEM
*******************************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
2


========================================
        Participated Teams
========================================


Team Name : RCB
Available Funds : 500000000


Team Name : CSK
Available Funds : 450000000


Team Name : MI
Available Funds : 420000000


Team Name : DC
Available Funds : 480000000


Team Name : KXIP
Available Funds : 460000000

*******************************************
        VIRTUAL AUCTION SYSTEM
*******************************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
```

2)

```
*****************************************
         VIRTUAL AUCTION SYSTEM
*****************************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
3

=================================
       PLAYER DETAILS
=================================
       Virat Kohli
       Age : 32
       Role : Batsman
       Country : India
       Base Price : 20000000

=================================
       PLAYER DETAILS
=================================
       Ms Dhoni
       Age : 40
       Role : Wk Batsman
       Country : India
       Base Price : 20000000

=================================
       PLAYER DETAILS
=================================
       Rohit Sharma
       Age : 33
       Role : Batsman
       Country : India
       Base Price : 20000000

=================================
       PLAYER DETAILS
=================================
       Chris Gayle
       Age : 41
       Role : Batsman
       Country : WestIndies
       Base Price : 10000000
```

3)

```
=================================
       PLAYER DETAILS
=================================
       Ab Devillers
       Age : 37
       Role : Batsman
       Country : SouthAfrica
       Base Price : 15000000

=================================
       PLAYER DETAILS
=================================
       Hardik Pandya
       Age : 25
       Role : All Rounder
       Country : India
       Base Price : 7000000

=================================
       PLAYER DETAILS
=================================
       KL Rahul
       Age : 27
       Role : Wk Batsman
       Country : India
       Base Price : 10000000

=================================
       PLAYER DETAILS
=================================
       Jasprit Bumrah
       Age : 31
       Role : Bowler
       Country : India
       Base Price : 15000000

=================================
       PLAYER DETAILS
=================================
       M Shami
       Age : 33
       Role : Bowler
       Country : India
       Base Price : 10000000
```

6)

4)

```
********************************************
        VIRTUAL AUCTION SYSTEM
********************************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
1

Enter Team Name :
SRH
Enter Team Budget :
410000000

SRH is Registered with 410000000 for Auction

********************************************
        VIRTUAL AUCTION SYSTEM
********************************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
```

5)

```
********************************
        VIRTUAL AUCTION SYSTEM
********************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
2


=====================================
        Participated Teams
=====================================


Team Name : RCB
Available Funds : 500000000


Team Name : CSK
Available Funds : 450000000


Team Name : MI
Available Funds : 420000000


Team Name : DC
Available Funds : 480000000


Team Name : KXIP
Available Funds : 460000000


Team Name : SRH
Available Funds : 410000000

********************************
        VIRTUAL AUCTION SYSTEM
********************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
```

6)

```
**********************************************
          VIRTUAL AUCTION SYSTEM
**********************************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
4

Enter Player's Name
R Ashwin
Enter Player's Age
27
Enter Player's Role
Bowler
Enter Player's Country
India
Enter Player's Base Price
20000000

R Ashwin is Registered for Auction

**********************************************
          VIRTUAL AUCTION SYSTEM
**********************************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
```

7)

```
*******************************************
        VIRTUAL AUCTION SYSTEM
*******************************************
1. Register a Team
2. Team Participated
3. List of Player Partcipated
4. Add Player in Participant List
5. Start Auction
6. Exit
5


****************************************************    *
                AUCTION BEGINS
****************************************************


===================================
        PLAYER DETAILS
===================================
        Virat Kohli
        Age : 32
        Role : Batsman
        Country : India
        Base Price : 20000000

RCB
Do you want Bid for Virat Kohli (y/n) :
y
Base Price  : 20000000
Place Bid :
22000000
Virat Kohli
New Price  : 22000000

CSK
Do you want Bid for Virat Kohli (y/n) :
n

MI
Do you want Bid for Virat Kohli (y/n) :
n

DC
Do you want Bid for Virat Kohli (y/n) :
n
```

8)

```
KXIP
Do you want Bid for Virat Kohli (y/n) :
n

SRH
Do you want Bid for Virat Kohli (y/n) :
n
Funds388000000
*********************************************************
         Virat Kohli Sold to RCB for 22000000
*********************************************************


===================================
         PLAYER DETAILS
===================================
         Ms Dhoni
         Age : 40
         Role : Wk Batsman
         Country : India
         Base Price : 20000000

RCB
Do you want Bid for Ms Dhoni (y/n) :
```

9)

```
=================================
        PLAYER DETAILS
=================================
        Ms Dhoni
        Age : 40
        Role : Wk Batsman
        Country : India
        Base Price : 20000000

RCB
Do you want Bid for Ms Dhoni (y/n) :
n

CSK
Do you want Bid for Ms Dhoni (y/n) :
n

MI
Do you want Bid for Ms Dhoni (y/n) :
n

DC
Do you want Bid for Ms Dhoni (y/n) :
n

KXIP
Do you want Bid for Ms Dhoni (y/n) :
n

SRH
Do you want Bid for Ms Dhoni (y/n) :
n
***********************************
        Ms Dhoni Unsold
***********************************
```