Table Tennis Tournament

1. Class Match

* Captures match number
* Captures the set number
* Sets the match type(Singles or Doubles)
* Sets the entity Venue
* Captures the playing entities(Team or Player)
* Sets umpire(an employee who is not in any of the playing teams given that there are at least two teams.)
* Stores the score of teams individually
* Updates the winning score(2-1, etc.)
* Captures the winning entity(Team or Player)
* Captures entity Schedule
* Captures entity Pool
* Captures entity Venue

2. Class Venue

* Having the venue name
* Having the table number
* Returns entity Venue for respective Match

3. Class Employee

* Sets the employee details:

-Employee ID

-Name

-Age

-Email ID

4. Class Player

* Extends entity Employee
* Captures team name
* Registers a player in tournament one time only

5. Class Team

* Sets the team name
* Creates a list of players
* Captures the winning score

6. Class PointsTable

* Captures entity Team
* Captures the list of entity (Team)
* Sorts list of team by respective scores
* Returns the list of points.

7. Class Schedule

* Dependent on entity Pool
* Sets details of entity Match
* Captures the time and date

8. Class ScoreBoard

* Captures the entity Schedule
* Generates scoreboard consisting scorecard of every match according to schedule

9. Class Pool

* Captures the list of entity Teams
* Divide teams in different Pools
* Returns list of entity Teams in respective Pool

10. Class TableTennisTournament

* Sets the tournament details:

-Name of tournament

-Year

-Start and end date of respective tournament

-entity Category

* Displays the following:

-entity Scoreboard

-entity Schedule

-entity Points Table

11. Class Category

* Captures the category

12. Class Singles

* Extends entity Category
* Captures gender

13. Class Doubles

* Extends entity Category
* Captures mixed Category
* Captures gender