Aim: To write a Program using PL/SQL Procedure, function and loops. can number. Theory and business scenario like:

1. write a PL/SQL block that calculates the average age of Players and displays the result.

2. write a PL/SQL block the calculus the average age of Players and table.

3. To create a function that returns the total number of teams in a Particular cricket Board.

4. To write a non-recursive PL/SQL Procedure to retrieve even-numbered Players IDs requested for any four name.

write a PL/SQL block that calculates the average age of Players and displays the result.

```
Declare
  total-age Number = 0;
  num-Players := 0;
  avg-age Number := 0

BEGIN
  Using a cursor to loop through all Players.
  For Player-rec IN (select Age from Players) Loop
    total-Age = total-age + player-rec;   --- summing up age.
    num-Players = num-Players +1;   --- counting the number of Players.

  END LOOP;
  --- calculating the average age.
    IF num-Players > 0 Then
      avg-age := total-age / num-Players;
    END IF;
    --- Displaying the result.
  DBMS-output-Put-LINE ('Total players:' || num-players];
  DBMS-output.Put-LINE ('Total Age :' || total-age);
  DBMS-output.Put-LINE ('Average Age :' || Avg-age);

END;
```

Output: Total Players : 14

Total Age : 342

Average Age : 24.42.

write a PL/SQL block that inserts a new player record into the players table.

```
Declare
    V_Player ID VARCHAR (6) := '& player ID'; -- You can assign
    a unique player ID as needed.
    V_Team ID VARCHAR (6) := '& Team ID'; -- replace with
    the actual Team ID.
    V_F Name VARCHAR (30) := '& F Name';
    V_LName VARCHAR (30) := '& LName';
    V_Age Number (5,2) := &age;
    V_Date of Birth := To_Date ('& DOB', 'YYYY-MM-DD'); --
        replace with the actual date of Birth.
    V_Playing role VARCHAR (25) := '& Playing Role';
BEGIN
    Insert into Player (player ID, Team ID, F Name, Lname, Age,
    Date of Birth, Playing role, email, contact_NO)
    values (V_Player ID, V_Team ID, V_F Name, V_LName, V_Age,
    V_Date of Birth, V_Playing role, V_email, V_contact NO);
    commit;
    DBMS_output.put_Line ('Player record inserted successfully');
Exception.
    when other Then.
DBMS_output line ('Error:'//sql ERRM);
    Roll BACK;
    END;
```

Enter the player ID: 676
Enter the team ID: CC Both
Enter the F Name: Rahol
Enter the LName: sharma
Enter the age: 23
Enter the Date of birth: 17-07-1999
enter the Playing role: All rounder.
Enter the email: rahul sharma @ gmail.com
enter the contact_no: 9797 18 18 15.
Player record Inserted successfully.

even numbered player IDS registered for any tournament.

```
create or replace Procedure get numbered player IDs is
Begin
for player_rec in (select player ID from player where to_
number (Player ID) MOD 2=0)
loop.
DBMS_output. Pot_line ("Even_numbered Player ID: "||
                              Player_rec. Player ID);
END LOOP;
END get numbered player IDs;
```

Result:

Thus the PL/SQL Procedures functions and loops on number theory and business scenosios "Experiment was successfully completed and results are verified.