Practice 12 [Class – Objects – File – Collection]

You are provided with a text file name "players.txt" having record of 100 players of different countries. Each player has 13 attributes (first two are string, rest of the attributes are integers except average is float, you have to take care of this information, while reading data and creating object etc.). Player has following attributes:

a. player name
b. country
c. carrier start year
d. carrier end year
e. number of matches
f. number of innings
g. number of times player remain not out
h. total runs
i. highest runs
j. average runs
k. hundreds
l. fifties
m. number of times player out on zero score

File has 1300 lines. Every attribute is written on separate line. Thirteen lines for each player.

1. Read file and print each players record in single line with tab separator

2. In previous part use :15 and :15 with player name and country to correct alignment of your output

3. Find maximum score, average etc. you can verify your record from excel file (I am attaching for you)

4. Create class Player and read record from file in your class object

5. Perform aggregate functions like:

   a. number of players from Pakistan
   b. number of players having runs in some range like greater than 5000
   c. number of players having 10 or more hundred

6. Add class level members count, total runs (by all players), total hundred (by all players). Write class level functions to get these members