

Extra Question # 09

Write a program that reads information about a group of game players from the text file **players.txt** and stores the data in four arrays. The data structure within the file is column by column, id – gender – age – highest score.

The program displays a menu and then displays **the list of players with their scores** or **the average highest score** or **the information of a specific player** according to the user's choice.

Write the following functions;

- **dispMenu** displays a menu with the following items, and then, asks for the user to input their choice, whilst also doing validation where necessary:
 1. Display Highest Scores
 2. Display Average of Highest Scores
 3. Display Player Info
 4. Exit
- **displayHighest** displays the ID numbers read as well as their highest scores.
- **displayAverages** displays the average highest score for male players, female players, and then, all players.
- **findPlayer**: searches for a specified player and returns the index of the player. If an unknown ID is given then it should return -1.

Example Run:

Project Name: EQ14

File Name: EQ14.cpp

```
1. Display Highest Scores
2. Display Average of Highest Scores
3. Display Player info
4. Exit
Enter your choice: 9
Wrong choice! Enter again: 0
Wrong choice! Enter again: 1
```

```
ID      Highest Score
****      *****
1000      180
1001      70
1002      220
1003      110
1004      230
1005      230
1006      140
1007      90
1008      50
1009      120
1010      100
1011      190
1012      160
1013      30
1014      100
1015      120
1016      180
1017      200
1018      200
1019      180
1020      190
```

```
1. Display Highest Scores
2. Display Average of Highest Scores
3. Display Player info
4. Exit
Enter your choice: 2
Average highest score for male Players is : 154
Average highest score for female Players is: 139
Average highest score for all Players is : 147
```

```
1. Display Highest Scores
2. Display Average of Highest Scores
3. Display Player info
4. Exit
Enter your choice: 3
Enter Player ID: 333
Player not found!
```

```
1. Display Highest Scores
2. Display Average of Highest Scores
3. Display Player info
4. Exit
Enter your choice: 3
Enter Player ID: 1010
Player Info
ID : 1010
Age: 21
Gender: F
Highest Score: 100
```