Description

1. Date Class:

- This class represents a date with attributes for day, month, and year.

- Constructor:

- Initializes the day, month, and year of the date.

- Getter Methods:

- `getDay()`: Returns the day of the date.

- `getMonth()`: Returns the month of the date.

- `getYear()`: Returns the year of the date.

- `toString()` Method:

- Overrides the `toString()` method to provide a string representation of the date in the format "day-month-year".

2. Member Class:

- This class represents a member of a golf club with various attributes.

- Constructor:

- Initializes all the attributes of the member.

- `display()` Method:

- Prints the details of the member to the console.

- Getter Methods:

- Various getter methods to access specific attributes of the member such as JoinDate, Handicap, Gender, and Team.

3. GolfClub Class:

- This class contains the `main` method where the program execution starts.

- `main` Method:

- Creates an array of `Member` objects with sample data.

- Performs the following tasks:

- Displays records where the member's JoinDate is earlier than 07-Apr-09.

- Displays records of senior members whose handicap score is less than 12.

- Displays records of female senior members who are part of TeamB.

- Iterates through the array of `Member` objects and checks conditions for each task.

- For each task, it uses conditional statements to filter members based on specific criteria.

- If a member satisfies the condition, their details are displayed using the `display()` method of the `Member` class.

4. Task Execution:

- For Task 1:

- Iterates through the array of members and checks if the JoinDate is before 07-Apr-09.

- If true, displays the details of that member.

- For Task 2:

- Iterates through the array of members and checks if the member is a senior (based on MemberType) and if their handicap score is less than 12.

- If true, displays the details of that member.

- For Task 3:

- Iterates through the array of members and checks if the member is a female senior (based on Gender and MemberType) and if they are part of TeamB.

- If true, displays the details of that member.

Overall, this program demonstrates the creation of classes, objects, and methods in Java to represent members of a golf club and perform specific tasks based on their attributes. It also showcases the use of conditional statements to filter and display member details based on given criteria.

Output

Members with join date earlier than 07-Apr-09:

Member ID: 118

Name: Melissa McKenzie

Handicap: 30

Gender: F

Team: N/A

Member Type: Junior

Coach: 153

Phone: 963270

Joined on: 28-May-2005

Member ID: 153

Name: Brenda Nolan

Handicap: 11

Gender: F

Team: TeamB

Member Type: Senior

Coach: 0

Phone: 442649

Joined on: 12-Aug-2006

Member ID: 235

Name: William Cooper

Handicap: 14

Gender: M

Team: TeamB

Member Type: Senior

Coach: 153

Phone: 722954

Joined on: 5-Mar-2008

Member ID: 239

Name: Thomas Spence

Handicap: 10

Gender: M

Team: N/A

Member Type: Senior

Coach: 0

Phone: 697720

Joined on: 22-Jun-2006

Member ID: 290

Name: Thomas Sexton

Handicap: 26

Gender: M

Team: N/A

Member Type: Senior

Coach: 235

Phone: 268936

Joined on: 28-Jul-2008

Member ID: 332

Name: Deborah Bridges

Handicap: 12

Gender: F

Team: N/A

Member Type: Senior

Coach: 235

Phone: 279087

Joined on: 23-Mar-2007

Member ID: 414

Name: Jane Gilmore

Handicap: 5

Gender: F

Team: TeamA

Member Type: Junior

Coach: 153

Phone: 459558

Joined on: 30-May-2007

Member ID: 415

Name: William Taylor

Handicap: 7

Gender: M

Team: TeamA

Member Type: Senior

Coach: 235

Phone: 137353

Joined on: 27-Nov-2007

Member ID: 461

Name: Robert Reed

Handicap: 3

Gender: M

Team: TeamA

Member Type: Senior

Coach: 235

Phone: 994664

Joined on: 5-Aug-2005

Senior members with handicap score less than 12:

Member ID: 153

Name: Brenda Nolan

Handicap: 11

Gender: F

Team: TeamB

Member Type: Senior

Coach: 0

Phone: 442649

Joined on: 12-Aug-2006

Member ID: 239

Name: Thomas Spence

Handicap: 10

Gender: M

Team: N/A

Member Type: Senior

Coach: 0

Phone: 697720

Joined on: 22-Jun-2006

Member ID: 323

Name: Daniel Wilcox

Handicap: 3

Gender: M

Team: TeamA

Member Type: Senior

Coach: 0

Phone: 665393

Joined on: 18-May-2009

Member ID: 415

Name: William Taylor

Handicap: 7

Gender: M

Team: TeamA

Member Type: Senior

Coach: 235

Phone: 137353

Joined on: 27-Nov-2007

Member ID: 461

Name: Robert Reed

Handicap: 3

Gender: M

Team: TeamA

Member Type: Senior

Coach: 235

Phone: 994664

Joined on: 5-Aug-2005

Female senior members in Team B:

Member ID: 153

Name: Brenda Nolan

Handicap: 11

Gender: F

Team: TeamB

Member Type: Senior

Coach: 0

Phone: 442649

Joined on: 12-Aug-2006

Member ID: 339

Name: Betty Young

Handicap: 21

Gender: F

Team: TeamB

Member Type: Senior

Coach: 0

Phone: 507813

Joined on: 17-Apr-2009