

## Data Structures and Algorithms ( CSE 2001 )

### Minor Project-1( 2024 )

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**Problem:-** The members of the golf club have their following attributes and methods. We will create a class to represent any member of the club and consider appropriate **constructors** or **setter methods** to set the details and a method **display()** to display the details of the members.

#### **Methodology:-**

- **Class Date**

Class date contains the following methods **getday()**, **getmonth()**, **getyear()** which returns the day, month and year and a constructor which we will use to take input and a method **displayDate()** to display the date.

```
Joindate: 2 Apr 8
```

- **Class Member**

It contains the methods **setDetails()** asks the user for input and the details of members.

The **seniorhandicap()** method shows the record of the senior members whose handicap score is less than 12.

Example:-

```
record of the senior members whose handicap score is less than 12  
MemberID: 123  
LastName: Mishra  
FirstName: Sasmita  
HandiCap: 10  
Gender: F  
Team: TeamB  
MemberType: senior  
Coach: 10  
Phone: 929299291  
Joindate: 2 Apr 9
```

And the method **TeamBfemales()** shows the record of the female senior members who are a part of TeamB.

Example:-

```
records of all the female senior members who are part of TeamB.  
MemberID: 123  
LastName: Mishra  
FirstName: Sasmita  
HandiCap: 10  
Gender: F  
Team: TeamB  
MemberType: senior  
Coach: 10  
Phone: 929299291  
Joindate: 2 Apr 9
```

And in the end a **display()** method in here displays the overall attributes of the members.

Example:-

```
MemberID: 123
LastName: Mishra
FirstName: Yashaswee
HandiCap: 0
Gender: M
Team: TeamB
MemberType: junior
Coach: 33
Phone: 913291929
Joindate: 2 Apr 9
```

And a **main()** method from which we will implement all the above methods we made to do their respective operations and also contains the logic to printing info of joining before 7-April

**Conclusion:-** In this way this methodology provides us with the way to store the details of the members of the golf club using the above classes and methods.