

Lesson Notes: 09/02/2026

Code from the lesson:

App Class

```
package com.sparta.oop;

import java.time.LocalDate;
import java.util.ArrayList;
import java.util.List;

public class App {
    public static void main(String[] args) {
        Member m1 = new Member("Cathy", "French", LocalDate.of(1990, 5, 15));
        Member m2 = new Member("Nish", "Mandal", LocalDate.of(2025, 1, 20));

        System.out.println(m1.getFullName());
        System.out.println(m1.getMemberDays());
        System.out.println(m2.getFullName());
        System.out.println(m2.getMemberDays());

        m2.setLastName("Jones");

        System.out.println(m2.getFullName());

        BaseballMember bm1 = new BaseballMember("Phil", "Windridge", LocalDate.of(2022,
12, 6), "shortshop");
        System.out.println(bm1.getFullName());
        System.out.println(bm1.getMemberDays());
        System.out.println(bm1.getPosition());
        bm1.setPosition("pitcher");
        System.out.println(bm1.getPosition());

        System.out.println();

//        System.out.println(m1.toString());
//        System.out.println(bm1.toString());

        List<Member> members = new ArrayList<>(List.of(m1, bm1));

        for (Member member : members) {
            System.out.println(member.toString());
```

```
        }  
    }  
}
```

Member Class

```
package com.sparta.oop;  
  
import java.time.LocalDate;  
import java.time.temporal.ChronoUnit;  
  
public class Member {  
    private final String firstName;  
    private String lastName;  
    private final LocalDate joinDate;  
  
    public Member(String firstName, String lastName, LocalDate joinDate) {  
        this.firstName = firstName;  
        this.lastName = lastName;  
        this.joinDate = joinDate;  
    }  
  
    public String getFirstName() {  
        return firstName;  
    }  
  
    public String getLastName() {  
        return lastName;  
    }  
  
    public LocalDate getJoinDate() {  
        return joinDate;  
    }  
  
    public void setLastName(String lastName) {  
        this.lastName = lastName;  
    }  
  
    public String getFullName() {  
        return firstName + " " + lastName;  
    }  
  
    public long getMemberDays() {  
        return joinDate.until(LocalDate.now(), ChronoUnit.DAYS);  
    }  
}
```

```
@Override
public String toString() {
    return getFullName() + " has been a member for " + getMemberDays() + " days.";
}
}
```

Baseball Member Class

```
package com.sparta.oop;

import java.time.LocalDate;

public class BaseballMember extends Member {

    private String position;

    public BaseballMember(String firstName, String lastName, LocalDate joinDate, String position) {
        super(firstName, lastName, joinDate);
        this.position = position;
    }

    public String getPosition() {
        return position;
    }

    public void setPosition(String position) {
        this.position = position;
    }

    @Override
    public String toString() {
        return super.toString() + " position: " + position;
    }
}
```