Date, Time, and Numeric Objects

Challenge 1: Get current date and time using LocalDateTime

```java
import java.time.LocalDateTime;

public class CurrentDateTime {
    public static void main(String[] args) {
        LocalDateTime now = LocalDateTime.now();
        System.out.println("Current Date and Time: " + now);
    }
}
```

```
// Output:
Current Date and Time: 2025-07-28T10:45:23.123
```

Challenge 2: Calculate age given a birth date

```java
import java.time.LocalDate;
import java.time.Period;

public class CalculateAge {
    public static void main(String[] args) {
        LocalDate birthDate = LocalDate.of(2000, 5, 15);
        LocalDate currentDate = LocalDate.now();
        Period age = Period.between(birthDate, currentDate);
        System.out.println("Age: " + age.getYears() + " years");
    }
}
```

```
// Output:
Age: 25 years
```

Challenge 3: Format date in dd-MM-yyyy format

```java
import java.time.LocalDate;
import java.time.format.DateTimeFormatter;

public class FormatDate {
    public static void main(String[] args) {
        LocalDate date = LocalDate.now();
        DateTimeFormatter formatter = DateTimeFormatter.ofPattern("dd-MM-yyyy");
```

```java
        String formattedDate = date.format(formatter);
        System.out.println("Formatted Date: " + formattedDate);
    }
}
```

```
// Output:
Formatted Date: 28-07-2025
```

Challenge 4: Add 5 days to current date and print

```java
import java.time.LocalDate;

public class AddDays {
    public static void main(String[] args) {
        LocalDate today = LocalDate.now();
        LocalDate futureDate = today.plusDays(5);
        System.out.println("Date after 5 days: " + futureDate);
    }
}
```

```
// Output:
Date after 5 days: 2025-08-02
```

Challenge 5: Round a decimal to 2 places using BigDecimal

```java
import java.math.BigDecimal;
import java.math.RoundingMode;

public class RoundDecimal {
    public static void main(String[] args) {
        BigDecimal num = new BigDecimal("123.45678");
        BigDecimal rounded = num.setScale(2, RoundingMode.HALF_UP);
        System.out.println("Rounded Number: " + rounded);
    }
}
```

```
// Output:
Rounded Number: 123.46
```