



Instructor Inputs

Session 3

Solutions to Exercises

This session covers exercises of Chapter 1 and Chapter 2 of the book, Introduction to Java – Activity Book.

Chapter 1

Exercise 1

In the EmployeeBook application, the following components can be identified:

- **Class:** EmployeeDetails
- **Attributes:** employeeId, employeeName, department, designation, dateOfJoining, dateOfBirth, maritalStatus, and dateOfMarriage
- **Methods:** enterData, updateData, displayData, and exitMenu
- **Access modifiers:** public

Exercise 2

The solution file, **EmployeeDetails.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Exercises\Chapter 01\Exercise 2\Solution**

Exercise 3

The code will result in a compilation error as a final variable must be initialized before it can be used.

Exercise 4

The solution file, **SampleClass.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Exercises\Chapter 01\Exercise 4\Solution**

Exercise 5

The solution file, **Reservation.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Exercises\Chapter 01\Exercise 5\Solution**

Chapter 2

Exercise 1

The solution file, **Distance.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Exercises\Chapter 02\Exercise 1\Solution**

Exercise 2

The solution file, **VolumeOfCylinder.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Exercises\Chapter 02\Exercise 2\Solution**

Exercise 3

The solution file, **TemperatureConversion.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Exercises\Chapter 02\Exercise 3\Solution**

Exercise 4

The solution file, **Population.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Exercises\Chapter 02\Exercise 4\Solution**

Exercise 5

The solution file, **Value.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Exercises\Chapter 02\Exercise 5\Solution**

Solutions to Additional Exercises

This session covers additional exercises of Chapter 1 and Chapter 2 of the book, Introduction to Java – Activity Book. The students need to book additional Machine Room sessions to perform these exercises.

Chapter 1

Exercise 1

For an application for the ServeYourMoney bank, the following components can be identified:

- **Class name:** Bank, Account, Employees, Customer
- **Member variables:** branchId, employeeName, employeeId, empAddress, phoneNumber, emailId, customerName, accountNumber, address, phoneNumber, and emailAddress
- **Data types:** int, String, float, and boolean

Exercise 2

The solution file, **Grocery.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Additional Exercises\Chapter 01\Exercise 2\Solution**

Chapter 2

Exercise 1

The solution file, **IncAndDecOp.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Additional Exercises\Chapter 02\Exercise 1\Solution**

Exercise 2

The solution file, **ShiftOp.java**, for this exercise is provided at the following location in the TIRM CD:

- **Datafiles For Faculty\Additional Exercises\Chapter 02\Exercise 2\Solution**

