TASK GUIDE (C1.06)

A. Objectives.
Student can create input data and show the data with data binding.

B. Requirements.
Hardware:
- 2 GB RAM minimum, 8 GB RAM recommended
- 2 GB of available disk space minimum, 4 GB Recommended (500 MB for IDE + 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution
- Intel processor with support for Intel VT-x, Intel EM64T (Intel 64), and Execute Disable (XD) Bit functionality

Software:
- Microsoft Windows 7/8/10 (32-bit or 64-bit)
- JDK 8
- Android Studio IDE (Minimum 3.2) with AndroidX library.

C. Resources.
Documents:
- Guide

Supplement files:

Test code:
- TestC1MyLibrary061.java

D. Task Description.
Student create variables to save data which input before and show the data.

E. Specification.

1. Open "InputDataActivity.java" set association with layout "activity_input_data.xml" about DataBinding like below

```
ActivityInputDataBinding binding = DataBindingUtil.setContentView(this,
R.layout.activity_input_data);
```

2. Open "activity_input_data.xml" declaration variable in data

```
<data>

        <variable

            name="name"

            type="type"/>

</data>
```

Name	type
user	org.aplas.mylibrary.viewmodels.User
book	org.aplas.mylibrary.viewmodels.Book

3. Fill the linear layout in background like below

```
android:background="@{user.color}"
```

4. Fill text every edit text and a text view like below

Type	Id	text
Edit text	editTitle	@{book.bookTitle}
Edit text	editYear	@{book.bookYear}
Text view	txtProfile	@{user.profile}

5. Open ShowDataActivity.java set association with layout "activity_show_data.xml" about DataBinding

```
ActivityShowDataBinding binding = DataBindingUtil.setContentView(this,
R.layout.activity_show_data);
```

6. Declare variable "booklist" and call "getBookList" function from "bookdata"

7. Open "activity_show_data.xml" declaration variable in data

Name	type
user	org.aplas.mylibrary.viewmodels.User

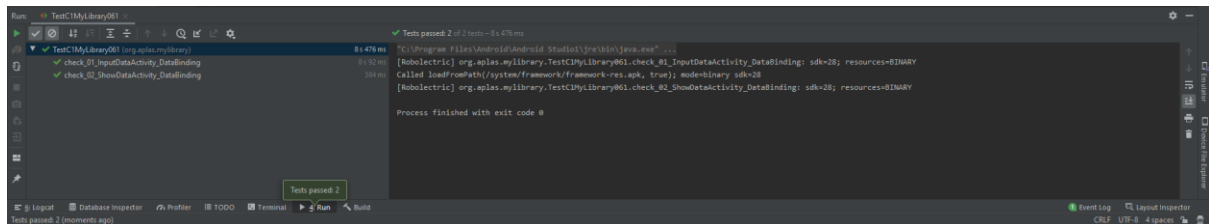|	
book	org.aplas.mylibrary.viewmodels.Book
booklist	org.aplas.mylibrary.viewmodels.BookList

8. Fill the linear layout in background like below

```
android:background="@{user.color}"
```

9. Fill text every text view and a spinner like below

Type	Id	text
Spinner	spBook	@{booklist.bookList}
Text view	txtBook	@{book.bookNumber+`Book Data`}
Text view	txtTitle	@{`Title:`+book.bookTitle}
Text view	txtType	@{`Type:`+book.bookType}
Text view	txtYear	@{`Year:`+book.bookYear}
Text view	txtProfile	@{user.profile}

F. Testing.

1. Copy "TestC1MyLibrary061.java" file to "org.aplas.mylibrary (test)" folder.

2. Right click on the "TestC1MyLibrary061.java" file then choose Run. It may take long time to execute.

3. Get the result of your task. If passed you will get green check like below. If the test failed, you will get orange check get the messages and you must check your work again.

You have to try until get all green checkes and continue to the next task.