# FIT2081 Mobile Application Development

## WEEK 5

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Monash University Malaysia

# Announcement for Week 5

- Please complete your pre-reading quiz and submit by Monday 4pm. You can find the pre-reading quiz link at moodle "assessment" section.

- You will have to complete and submit the workshop quiz which will make available after the forum by Wednesday 11.55pm.

- Please complete your lab tasks before joining your lab session. Your lab solution must be submitted to moodle by Friday 11.55pm.

# Learning Outcomes for Week 5

- Advanced UI Design
- Examine more complex UI options available
- Understand how to correctly display lists of data (using listView)

# Activities and Checklist for week 5

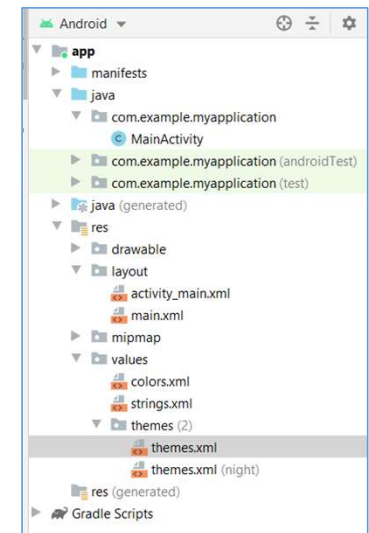| Activity | Notes | Checked? |
|---|---|---|
| Study the slide "FIT2081_Week4_Malaysia" & All the reading material in the moodle | Useful to complete your lab tasks. | |
| Complete the pre-reading quiz | Access it from the "assessment section" in moodle. Submit by Monday 4pm. | |
| Attend Forum | Online, for topics wrap-up. | |
| Complete Workshop quiz | Workshop quiz questions will be uploaded after the Forum on Monday. Submit by Wednesday 11.55pm. | |
| Complete lab task | Please refer to the complete section in week 5 moodle | |
| Attend tutorial | OPTIONAL – if you have issue regarding the lab tasks | |
| Attend Lab | COMPULSORY – You have to complete the lab tasks before coming to the lab. Submit your lab tasks (including the extra task) on Friday 11.55pm | |

# Tutorial time!

GIF retrieved from https://giphy.com

# Video 1: Setup Layout, Toolbar and FAB button

## 1) Please play the video (12 minutes 40 seconds)
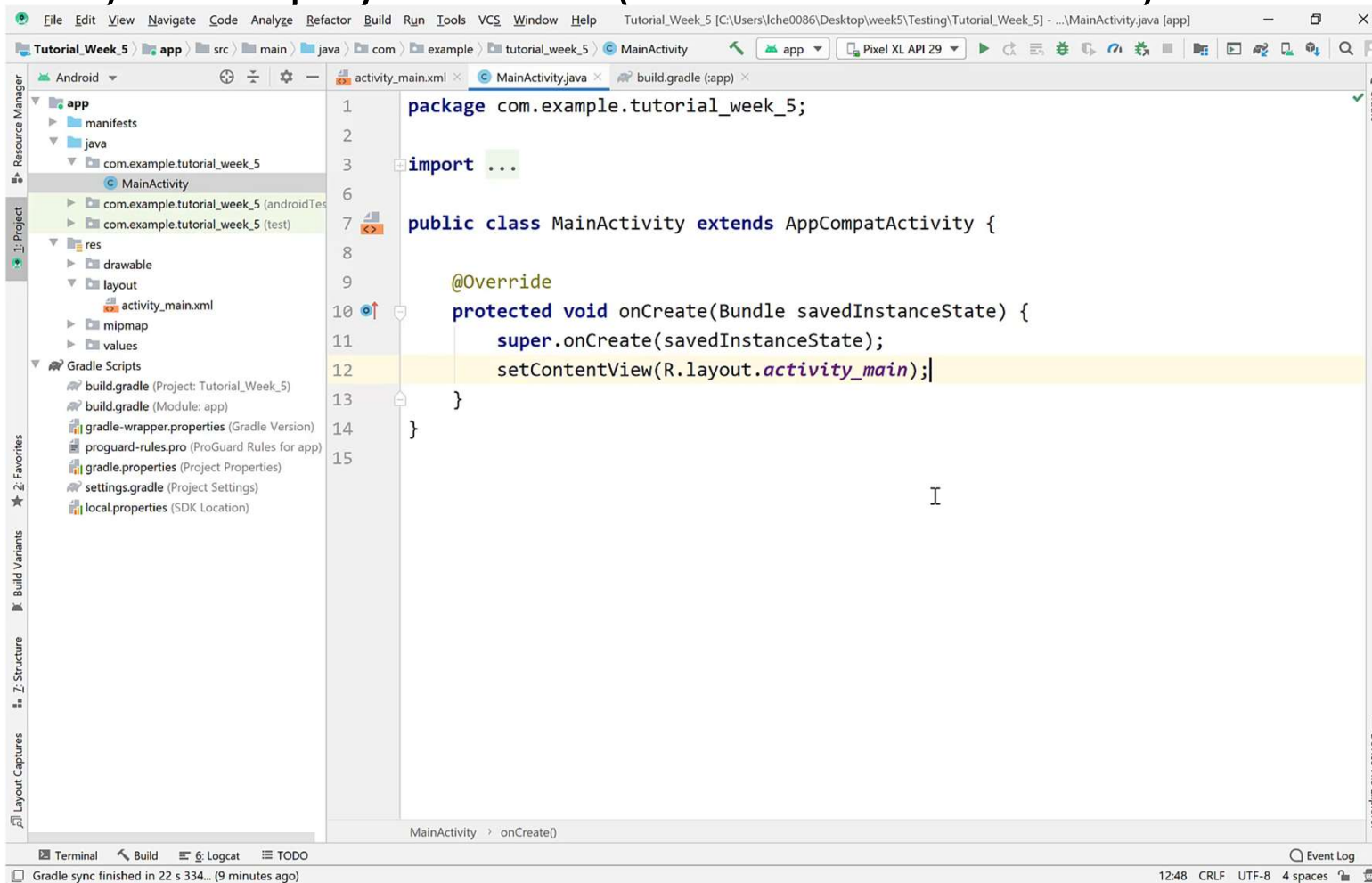
Note: In the latest Android Studio, the style.xml has been renamed as themes, but it works the same
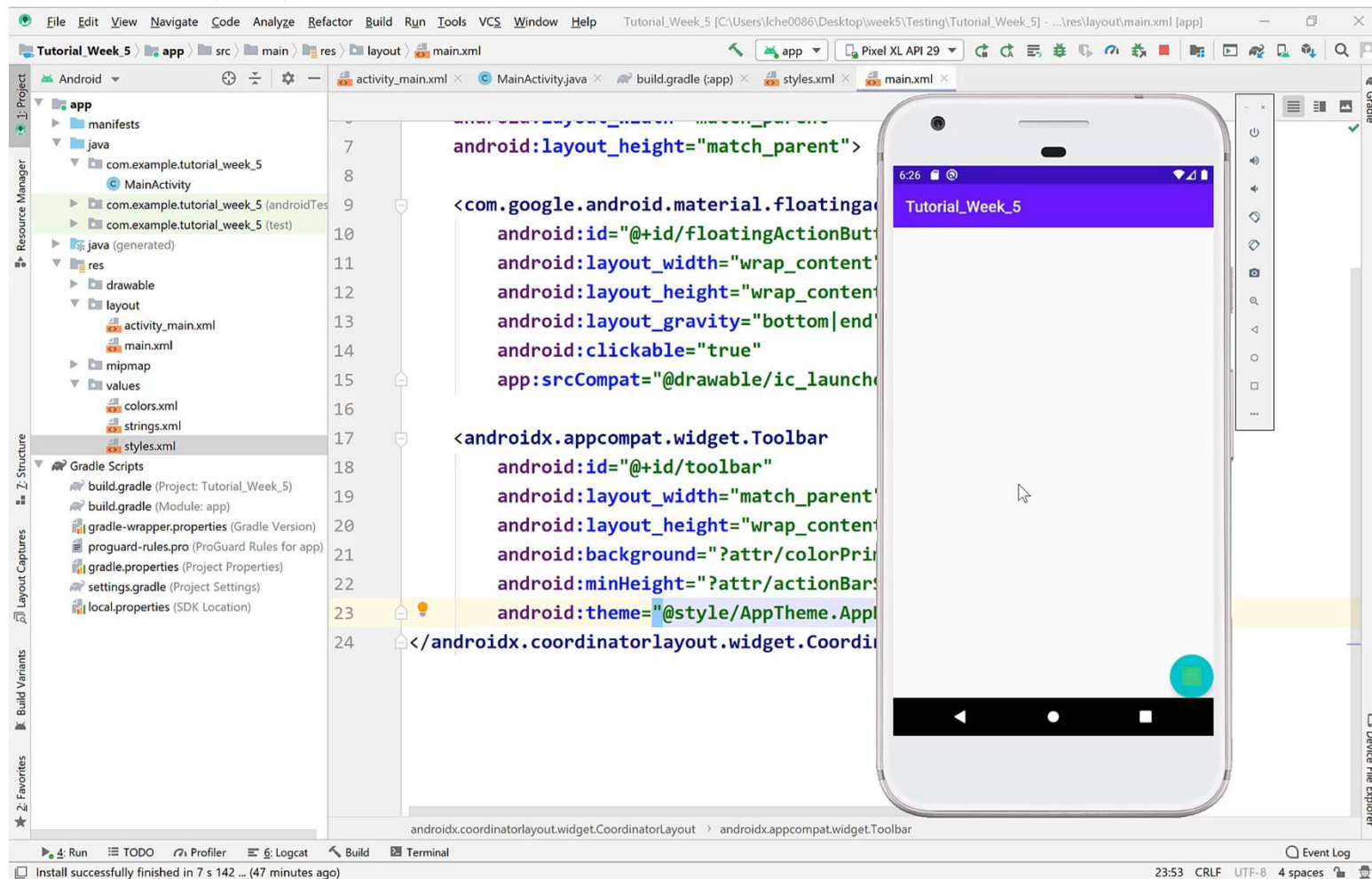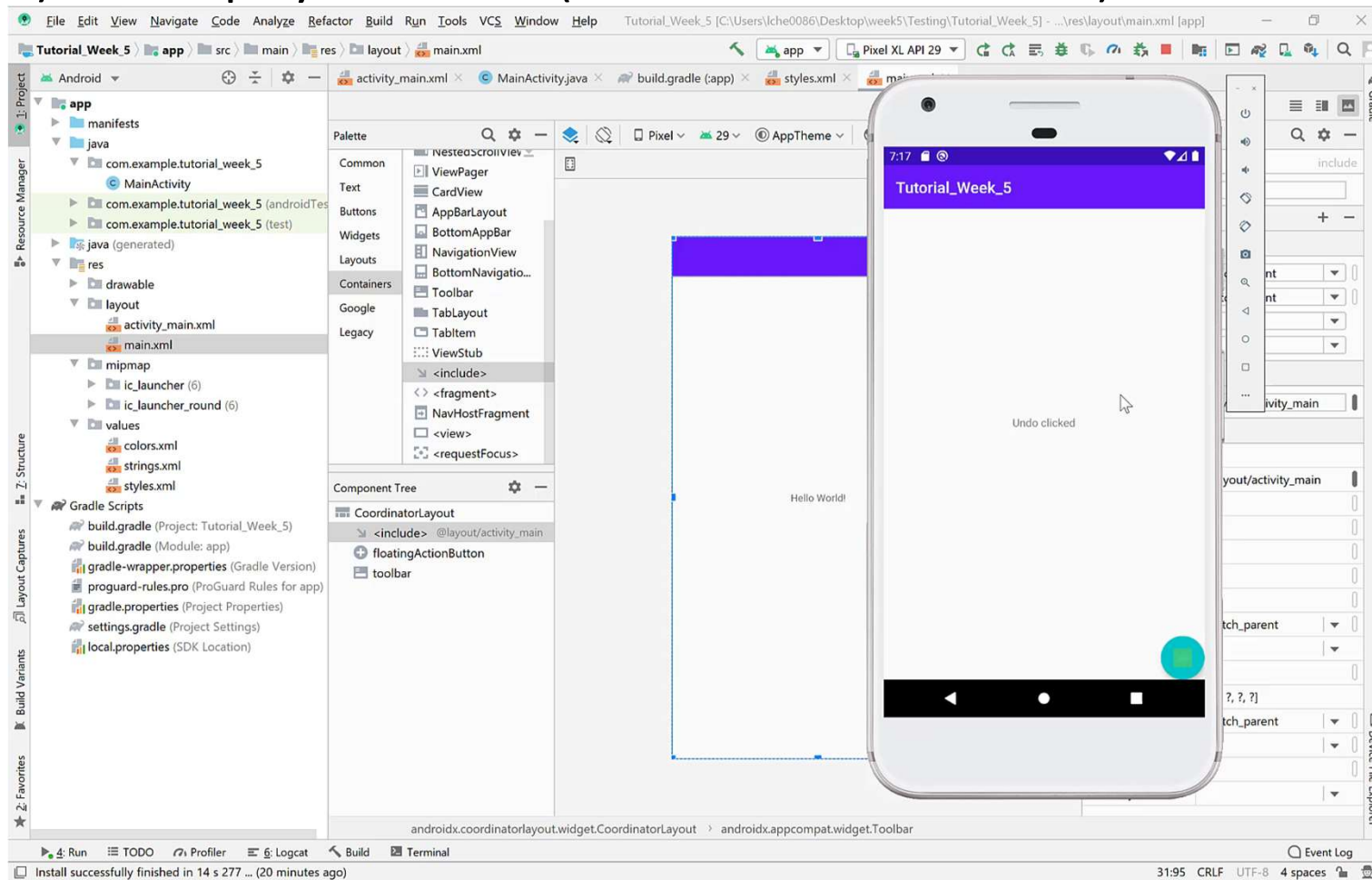
# Video 2: Listen to FAB Events and Making a Snackbar

## 1) Please play the video (12 minutes 42 Seconds)

# Video 3: Create a listview

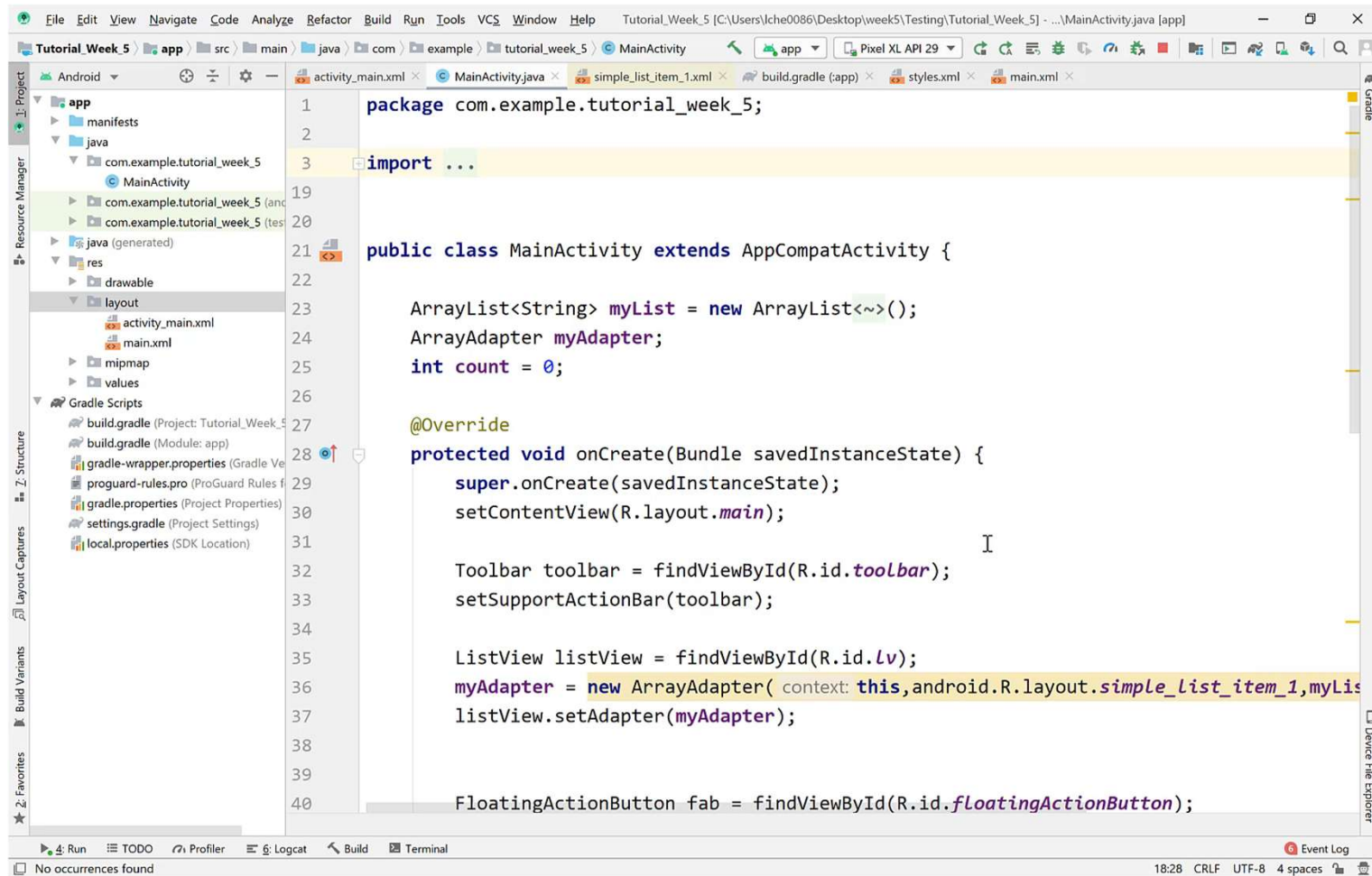## 1) Please play the video (10 minutes 03 Seconds)

# Video 4: Create Drawer Navigation menu (including Navigation View Events Listener)
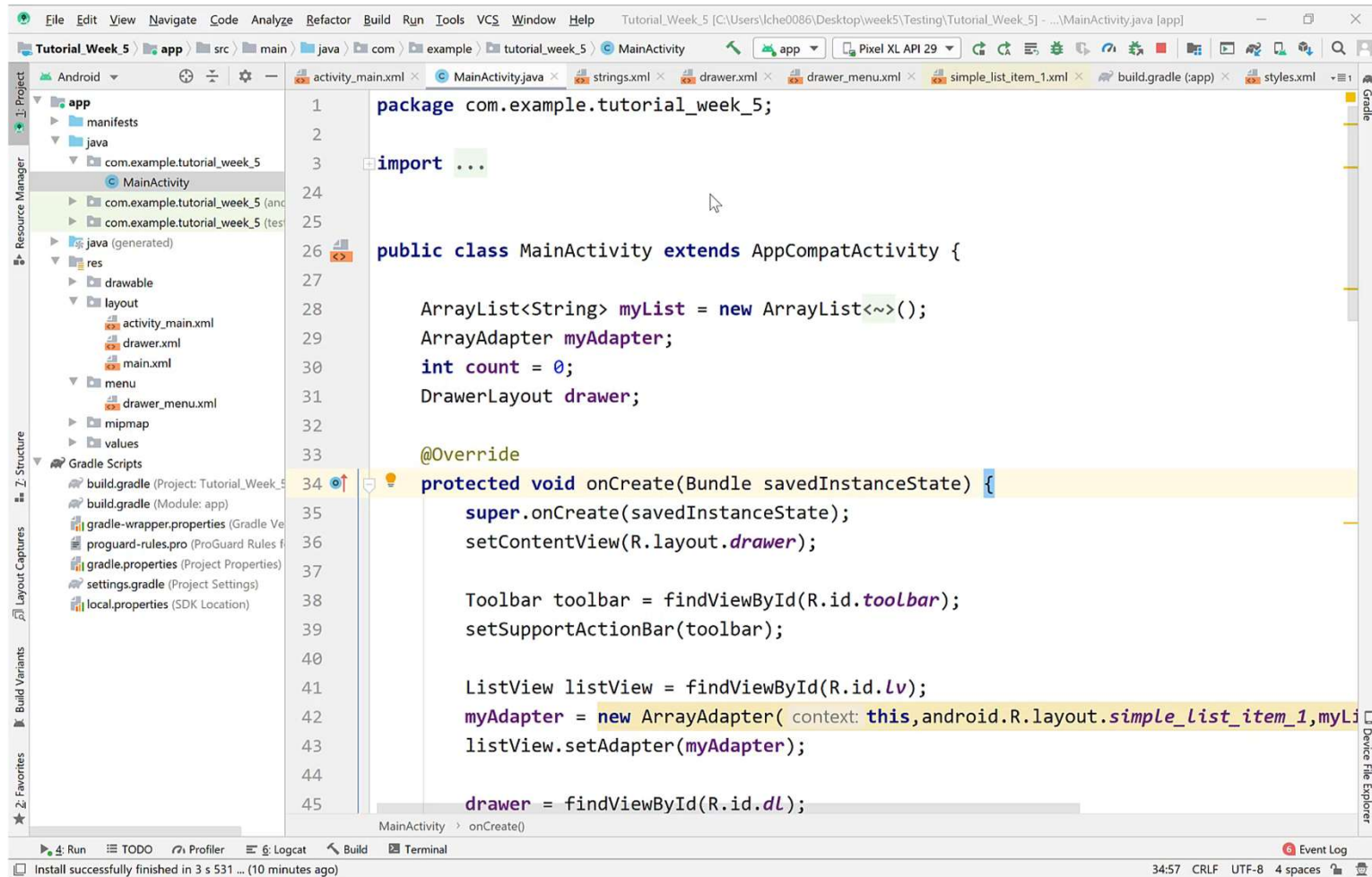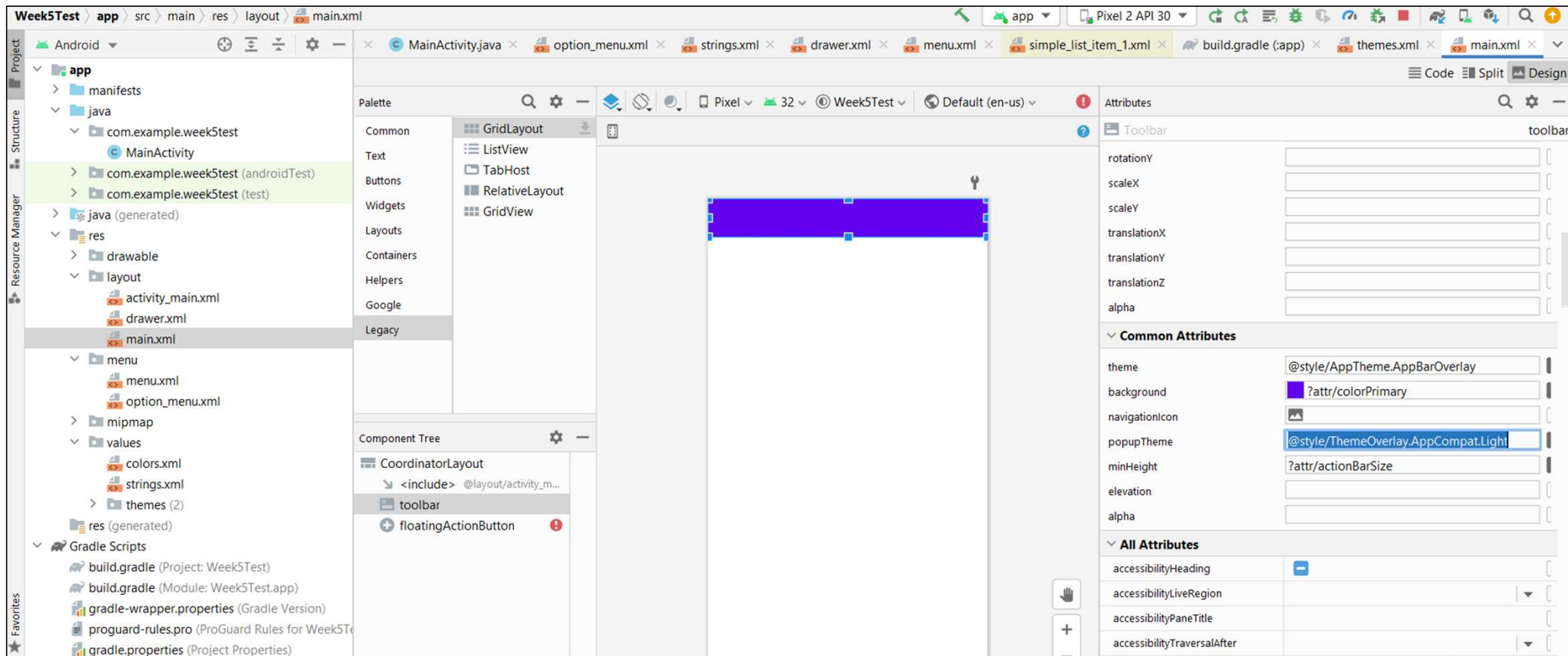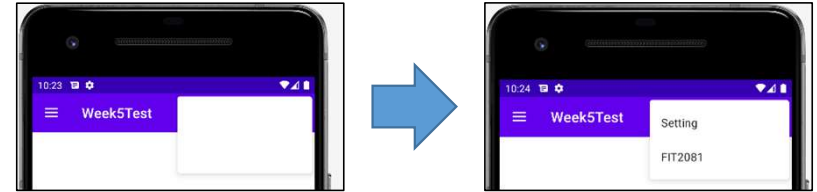
1) Please play the video (19 minutes 59 seconds)

# Video 5: Create Option menu

1) Please play the video (12 minutes 28 seconds)

# Issue with Option menu



1) Unable to view the text in the option menu =(

   • Just change the popupTheme of the toolbar to @style/ThemeOverlay.AppCompat.Light

# Issue with ListView Scrolling

1) Unable to scroll the List view due to using a scrollable layout
   - Just add this line in the listView section in the xml file: android:nestedScrollingEnabled="true"

```xml
<ListView
    android:id="@+id/listview"
    android:layout_width="0dp"
    android:layout_height="0dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/guideline2"
    android:nestedScrollingEnabled="true"/>
```

# Lab time!



*Gif retrieved from https://giphy.com/*

# Lab 5 – Instructions

## Lab Specifications

Add the following features to the week 4 Books Library application:

**Task 1:** Add a navigation view (drawer layout) with the following items:

1. Add Books: Add a new Book to the list

2. Remove Last Book: remove the last Book added to the list (i.e. list view)

3. Remove All Books: remove all the Books (i.e. clear the list view)

**Task 2:** Add a Toolbar with Material design specs to your app with an options menu that contains :

1. An option to clear all the items

2. An option that loads the saved values from the shared preferences
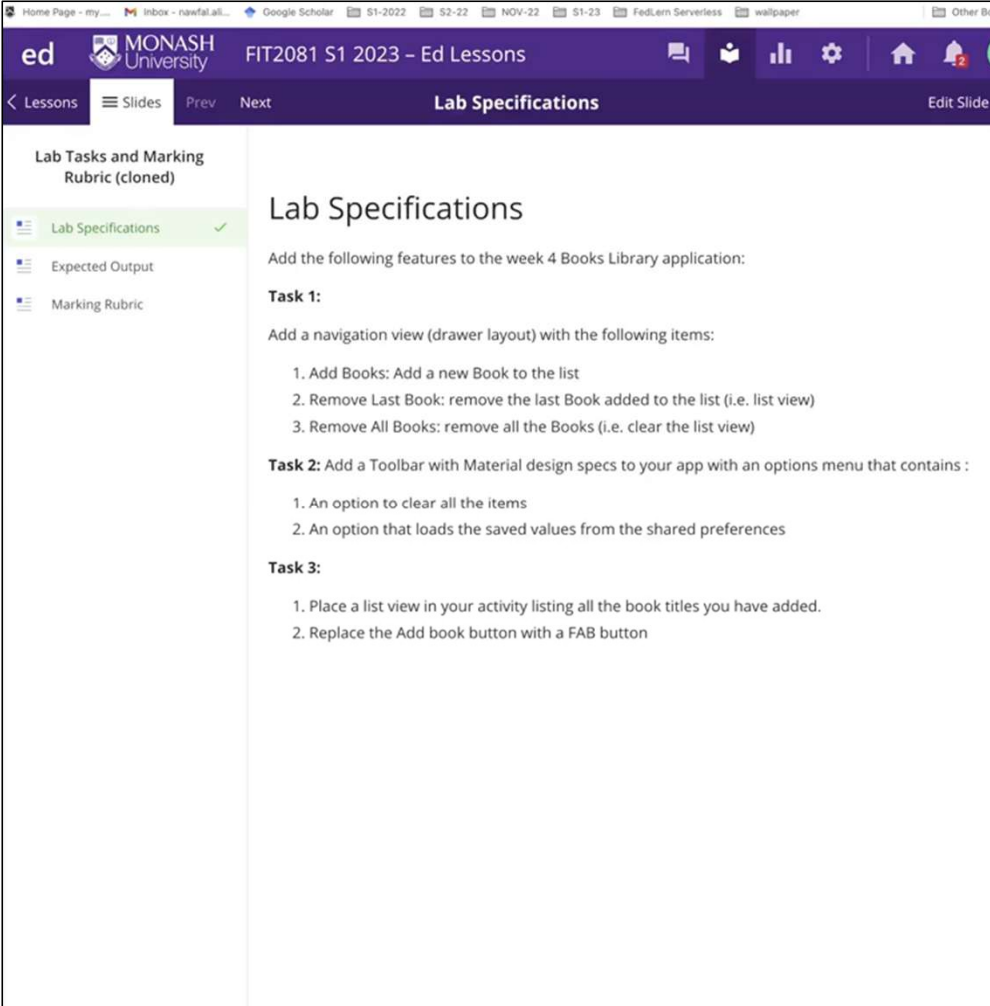
**Task 3:**

1. Place a list view in your activity listing all the book titles you have added.

2. Replace the Add book button with a FAB button

The expected output is depicted below:

# Lab 5 – Instructions

**Expected Output:**

***Please join your tutorial class if you have any queries regarding the lab tasks.

# Thank you!