

TASK GUIDE (A1X.02)

A. Objectives.

Students know how to configure Android Studio project resources, like string and font.

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

C. Resources.

Documents:

- Guide

Supplement files:

- ResourceTest.java

Test code:

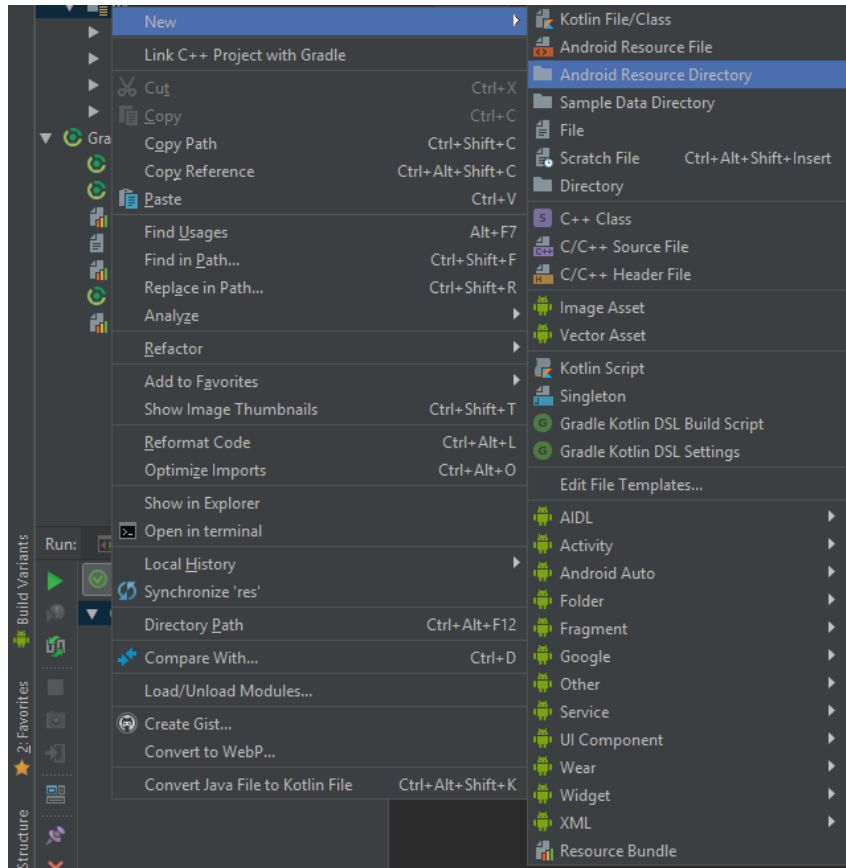
- TestA1BasicUIX021.java

D. Task Description.

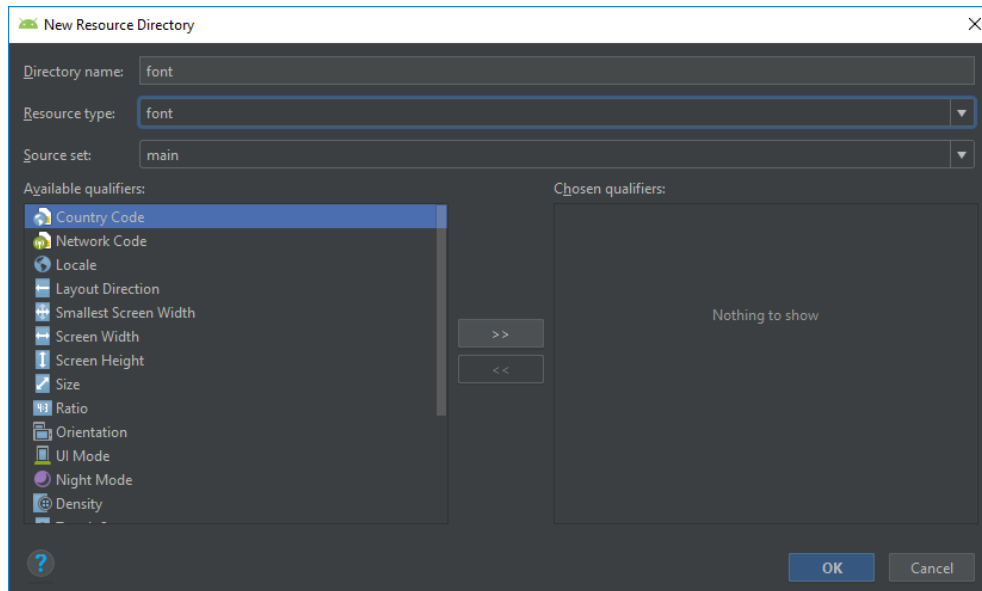
Student start to create a project with specified project description and test it.

E. Specification.

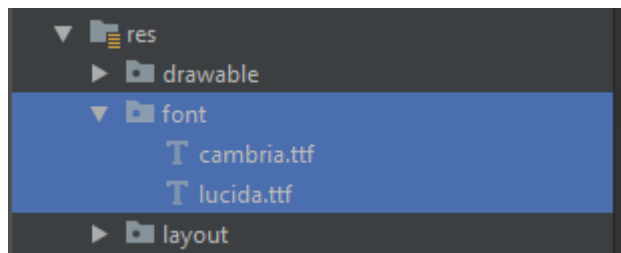
1. Open BasicAppX project that already test passed.
2. Create “font” folder under “res” folder. Right click on the “res” folder and choose “New –Adroid Resource Directory”.



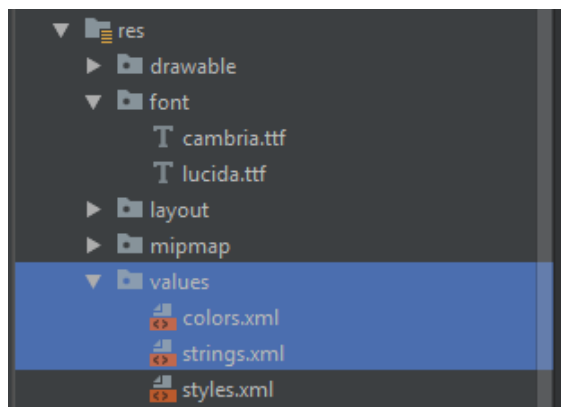
Then show “New Resource Directory”, and select Resource type: “font”, then Click “OK”.



3. Copy file “cambria.ttf” and “lucida.ttf” in Supplement folder to “font” folder that already created.



4. Open “strings.xml” file under “res/values” folder



5. Edit the value of all “string” name as described below.

Template: `<string name="string-name">string-value</string>`

| name | value |
|----------|----------------|
| app_name | Unit Converter |
| tv1Text | Unit Converter |

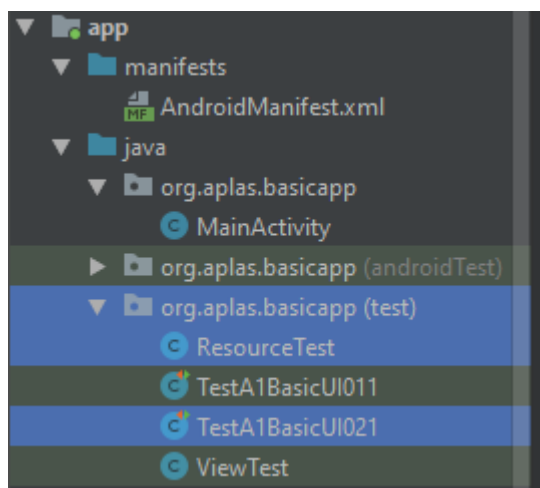
| | |
|-------------|-----------------|
| tv2Text | -> |
| btnText | Convert |
| inputText | 0 |
| inputPrompt | Choose |
| hint | Enter any value |
| chkRound | Rounded |
| chkForm | Show Formula |
| rbDist | Distance |
| rbTemp | Temperature |
| rbWeight | Weight |

- Open “colors.xml” file under “res/values” folder and edit the value of all “color” name as described below.

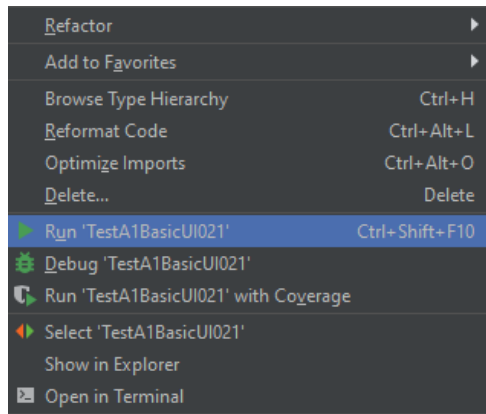
Template: `<color name="color-name">color-value</string>`

| name | value |
|------------------|---------|
| colorPrimary | #008577 |
| colorPrimaryDark | #00574B |
| colorAccent | #D81B60 |
| viewBgColor | #00BFFF |
| textColor | #000000 |
| etBgColor | #CCCCCC |
| btnColor | #FFA500 |
| spBgColor | #FFFFFF |

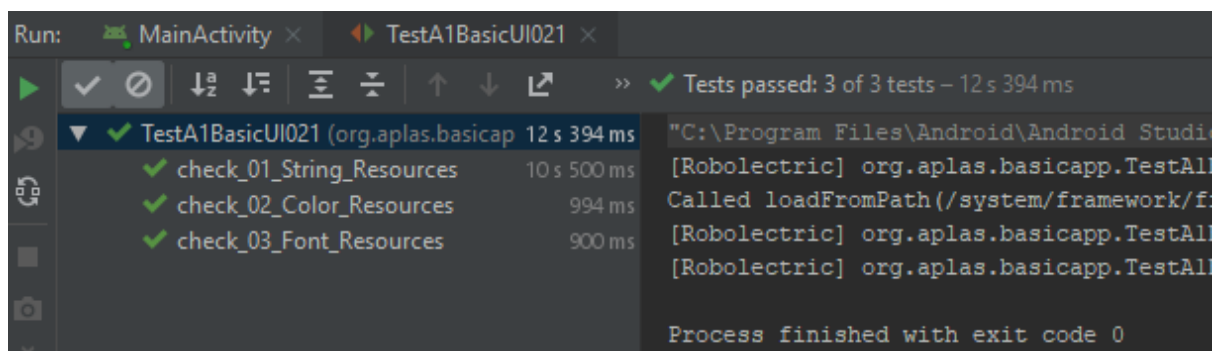
- Copy “TestA1BasicUI021.java” and “ResourceTest.java” file to “org.aplas.basicappx (test)” folder



- Right click on the “TestA1BasicUI021.java” file then choose Run ‘TestA1BasicUI021’ and click it. It may take long time to execute.



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



F. Testing.

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