Activity Lifecycle-06

In this assignment you will experiment with the Activity Lifecycle and also create a landscape layout for your GeoQuiz app.

1. Ensure you commit and push Lab 5, then submit your commit ID before moving on with this lab.

2. Create a GitHub repository for this lab. Open your GeoQuiz app, remove the previous lab remote and add your remote for this lab, then do a push.

3. Open your QuizActivity.java file and override the activity lifecycle methods (onStart, onResume, onPause, onStop, and onDestroy), ensure you call the super's method for each method you override.

4. Add a String variable named TAG in your QuizActivity.java file which will be used to write to the log.

5. For each lifecycle method you implemented, write a line to the log telling which method is being executed.

6. Create a filter in LogCat to show only the log items for your TAG.

7. Run your app and open the LogCat, rotate the device in the emulator and use the back button and home buttons, observe when the lifecycle events executed by reviewing your messages in the LogCat.

8. Create a landscape layout for your app by right clicking the res folder and creating a new resource (ensure you select layout as the resource type, and Orientation and Landscape in the options).

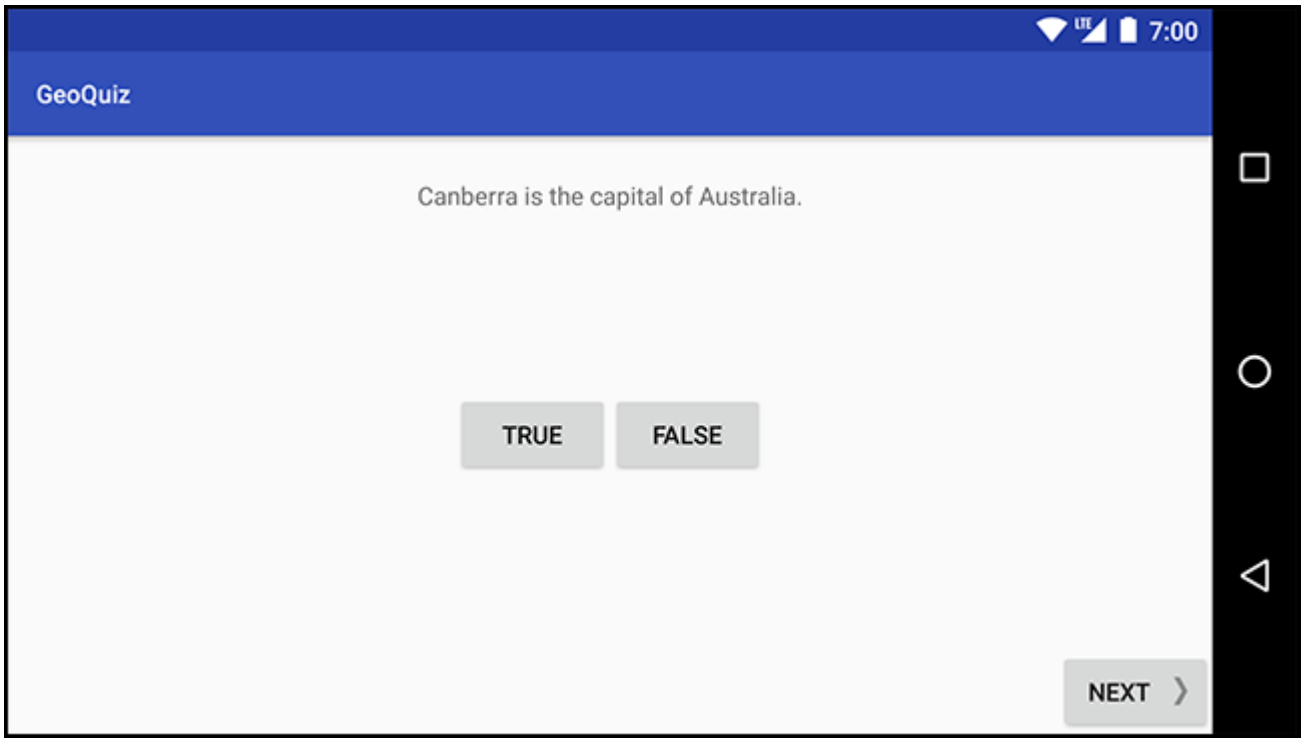
9. Use a FrameLayout to build a different layout for your landscape layout.

10. Implement the onSaveInstanceState method and save your current question index data using savedInstanceState.putInt(KEY_INDEX, mCurrentIndex) (note that KEY_INDEX is a String variable you will need to create in your QuizActivity.java file).

11. In your onCreate method check if there is a savedInstanceState and if so load the persisted current question index using savedInstanceState.getInt(KEY_INDEX, 0).

12. Run your app using the emulator and ensure it works properly

Final App


7:00
GeoQuiz
Canberra is the capital of Australia.
TRUE
FALSE
NEXT