Week 5 - Tutorial A – More UI Components.

This tutorial focuses on adding more UI components to your applications. There are example applications (A Task list and a Tip Calculator) on SunSpace which demonstrate the use of different components. You should use these as guidance.

Open and explore the sample applications. Execute and test them, comparing how each UI component has been implemented. You will see that in order to handle UI events, the View.OnClickListener interface has been implemented in the Activity class. This is one of 3 Event Handling approaches described in a previous lecture.

Exercise 1

Change the sample code and experiment with handling user interaction events via:

- Anonymous inner classes.
- Methods declared directly within the XML file.

Exercise 2

Create a Tip Calculator which uses a Spinner instead of radio buttons. Allow people to select between either 10%, 15%, 20% or no tip, and display the appropriate result. There is material in your lecture notes to help with this.

Exercise 3

Extend the "MyTracks" application you created so that all tracks are returned back to the user instead of the most recent track. You may use whichever UI component you feel is most appropriate for the task.

Hint: One option is to use a Spinner with an ArrayAdapter. See lecture notes for details.

Alternatively, carry out independent research into alternative widgets.

Exercise 4

Try to adapt and use the scripts presented during the lecture for cleaning/building/zipping Android Studio projects. In order to run on your machine, you should check system variables and set local variables on the scripts to match your system configuration.

Scripts are available on SunSpace (Week 5)