The purpose of this lab is to give you practice:

* Creating UI widgets programmatically
* Creating UI widgets using AXML
* Handling UI events

**Part 1: Xamarin Hello Android tutorial**Do the Xamarin "Hello Android" tutorial to create a *HelloAndroid* solution with two projects: one with the UI defined in C# code, the other with the UI defined in XML. Take screen-shots of each app running before and after clicking the button.

***Assignment Group A***

**Part 2: Add a reset button using C# code**Make a copy of the *HelloAndroid* solution from the tutorial and rename solution folder to HelloAndroid-Lab1A-YourName. This solution should contain two projects. In the HelloAndroid.Code project:

1. Reverse the position of the existing label and button so that the button is on top.
2. Add a second button below the label, titled “Reset” that will reset the message back to "Hello Xamarin.Android". Create the button in code and set its title text using code.

**Part 3: Add a reset button using XML**In the HelloAndroid.Xml project change the UI in the same way described above, but define the button using XML. Also, define its title as an XML string resource.

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***Assignment Group B***

**Part 2: Add a second button and label using C# code**Make a copy of the *HelloAndroid* solution from the tutorial and rename solution folder to HelloAndroid-Lab1A-YourName. This solution should contain two projects. In the HelloAndroid.Code project:

1. Leave the first label unchanged from the tutorial.
2. Add a second label that will display the message “Hello from the button" when the existing button is clicked. Set its default text to “---“.
3. Add a second button below the new label, titled “Clear”, that removes the text from both labels.

Create the label and button in C# code.

**Part 3: Add a second button and label using XML**In the HelloAndroid.Xml project change the UI in the same way described above**,** but create the label and button using XML. Also, define the title and default text as XML string resources. Save this as a separate solution

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***Assignment Group C***

**Part 2: Add two more buttons using C# code**  
Make a copy of the *HelloAndroid* solution from the tutorial and rename solution folder to HelloAndroid-Lab1B-YourName. This solution should contain two projects. In the HelloAndroid.Code project:

1. Add a second button titled “Reset” that will reset the message back to "Hello Xamarin.Android".
2. Add a third button below the new label, titled “Clear”, that removes the text from the label.

Create the two buttons using C# code. Save the solution.

**Part 3: Add two more buttons using XML**   
In the HelloAndroid.Xml project change the UI in the same way described above, but create the label and button using XML. Also, define the title and default text as XML string resources.

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**Submission to Moodle**

Beta Version

Post the following to the Beta + Code Review Forum:

1. for part 1: A document containing screen-shots of the HelloAndroid app with each screen-shot labeled. (Please use .docx or .pdf format.)
2. For parts 2 and 3: A zip file containing your app’s Visual Studio solution folder. (Make your solution smaller by deleting the *obj* and *bin* folders.)  
   Or, optionally, a link to a repository containing your solution source code. You can put the link on the same document with the report on your exercise from part 1.
3. A copy of your lab instructions (so the lab partner who reviews your work will know what your requirements were).

Production Version

1. Items 1 and 2 above, but revised as needed.
2. The code review of your work (the one done by your lab partner) with the second column (“Release”) completed by you.