# Unit 1 – Lesson 3. Android Activity and Events – Buttons - Part 1

**Aim:**

* How do we work with android activities and events?
* How do we add a button and make the app respond to the button?

**Objectives:** After the lesson, students will be able to

1. Obtain basic understanding of Android Activity files
2. Develop a simple app with a button

**CLASS PROCEDURE:**

***Do Now:***  Open Android Studio. Open the HelloSeniors app you created on Friday. Run the app on Emulator and make sure it works.

***Class Discussion / Presentation:***

1. How do we add a button to the app?
2. How do we make the app respond to the button? For an example, how do we add a button, and when the user clicks on the button, it takes the user to the Bronx Science website?

***Pair – sharing Activity:***

* Open the HelloSeniors app project in Android Studio. Go to the Activity\_Main.xml or Res > Layout and find the layout file, add a button to the screen. Fill in the Button ID (i.e., fill in “button” as the button ID, and also change the text to “Go to Bxsci.com”.
* Go to the MainActivity.java, add the following program to the class:

**package** com.example.qiu1.helloseniors;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.content.Intent;  
**import** android.widget.Button;  
**import** android.view.View;  
**import** android.view.View.OnClickListener;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 Button **button**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 addListenerOnButton();  
 }  
  
 **public void** addListenerOnButton() {  
  
 **button** = (Button) findViewById(R.id.***button***);  
  
 **button**.setOnClickListener(**new** OnClickListener() {  
  
 @Override  
 **public void** onClick(View arg0) {  
  
 Intent browserIntent =  
 **new** Intent(Intent.***ACTION\_VIEW***, android.net.Uri.*parse*(**"http://www.bxscience.edu/"**));  
 startActivity(browserIntent);  
  
 }  
  
 });  
  
 }  
  
}

* Save all files. Run the app project on an emulator. Click the button, and it should display the Bronx Science website.

***Pair – sharing Activity #2:***

Work with your partner, research on how to change the background color of the app UI. Create a new Android app project, add a button, and when the user clicks the button, change the background color of the app!