



HealthyRecipes > app > src > main > res > layout > recipe.xml

[app] C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes\app\src\main\java\edu\udayton\healthyrecipes>MainActivity.java

activity_main.xml recipe.xml Recipe.java MainActivity.java

Palette Attributes

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

In Part 2 of Lesson 2, we added a second (Recipe) activity to our project, and customized its layout (XML) file.

In this part of Lesson 2, we code the MainActivity (Java source code) so that clicking (tapping) its View Recipe button launches the Recipe activity (and shows the recipe for Bruschetta).

We also test our app using the virtual Google Nexus 5 running Android OS 9 (Pie) that we created in Lesson 1.

At this point in this lesson, you should review Coding the Java Activity (Android Boot Camp, starting on page 64).

HOWEVER, do note that, in this lesson, we show a slightly different coding approach for the event handler.

Bruschetta Recipe

Bruschetta Recipe

Ingredients

tomatoes

leaves

c cloves, chopped

live oil

Directions

Combine the ingredients and add salt to taste.

French bread slices with mixture.

Directions

Component Tree

LinearLayout(vertical)

Ab recipeTitleTextView

Ab ingredientsTitleTextView- ...

Ab ingredient1TextView- "@s..."

Ab ingredient2TextView- "@s..."

Ab ingredient3TextView- "@s..."

Ab ingredient4TextView- "@s..."

Ab directionsTitleTextView- "...

Ab directionsTextView1- "@st..."

Ab directionsTextView2- "@st..."

Attributes

Ab directionsTextView2

lineSpacingExtra

textColor @android:color/black

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranule

autoSizeTextType

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

drawableEnd

drawableLeft

drawablePadding

drawableRight

drawableStart

drawableTop

drawingCacheQuality

duplicateParentState

editable

editorExtras

ellipsize

emc

Design Text

Emulator: Process finished with exit code 0 (40 minutes ago)

Event Log



HealthyRecipes > app > src > main > res > layout > recipe.xml

[app] C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes\app\src\main\java\edu\udayton\healthyrecipes>MainActivity.java

Click to switch to the MainActivity's Java source code

Bruschetta Recipe

Ingredients

4 plum tomatoes
6 basil leaves
3 garlic cloves, chopped
3 TB olive oil

Directions

Combine the ingredients and add salt to taste.
Top French bread slices with mixture.

Bruschetta Recipe

Ingredients

4 plum tomatoes
6 basil leaves
3 garlic cloves, chopped
3 TB olive oil

Directions

Combine the ingredients and add salt to taste.
Top French bread slices with mixture.

Palette

Common Ab TextView

- Text
- Buttons
- Widgets
- Layouts
- Containers
- Google
- Legacy

Attributes

Ab directionsTextView2

lineSpacingExtra

textColor @android:color/black

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranule

autoSizeTextType

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

drawableEnd

drawableLeft

drawablePadding

drawableRight

drawableStart

drawableTop

drawingCacheQuality

duplicateParentState

editable

editorExtras

ellipsize

emc

Component Tree

- LinearLayout(vertical)
 - Ab recipeTitleTextView- "@string/recipe_title"
 - Ab ingredientsTitleTextView- ...
 - Ab ingredient1TextView- "@s..."
 - Ab ingredient2TextView- "@s..."
 - Ab ingredient3TextView- "@s..."
 - Ab ingredient4TextView- "@s..."
 - Ab directionsTitleTextView- "..."
 - Ab directionsTextView1- "@st..."
 - Ab directionsTextView2- "@st..."

Design Text

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

Resource Manager

2:Structure

Wait! There's code here! What does it do?

Well, `onCreate` is a lifecycle method for an Android activity, and it executes when the activity is first created. Since this is the launcher activity, this method is the first to execute when the app is launched (like the `main` method in Java, or the `main` function in C).

The code that is automatically added to `onCreate` by Android Studio:

1. calls the parent class' (`AppCompatActivity`'s) `onCreate` method with whatever saved state (if any) the activity ended during its last execution
2. the layout (`activity_main.xml`) is displayed and is defined as the layout for this activity

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6     @Override
7     protected void onCreate(Bundle savedInstanceState) {
8         super.onCreate(savedInstanceState);
9         setContentView(R.layout.activity_main);
10    }
11 }
12
13 }
```

We'll add our activity code after the auto-generated code in `MainActivity`'s `onCreate` method, so set the cursor at the end of this second statement, and add 2 blank lines (hit the Enter key twice).

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (40 minutes ago) 11:48 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

1:Resource Manager

Java

app

- manifests
- java
 - edu.udayton.healthyrecipes
 - MainActivity
 - Recipe
 - edu.udayton.healthyrecipes (androidTest)
 - edu.udayton.healthyrecipes (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

attività_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6     @Override
7     protected void onCreate(Bundle savedInstanceState) {
8         super.onCreate(savedInstanceState);
9         setContentView(R.layout.activity_main);
10    }
11 }
12 }
```

We're going to use Android Studio's code completion to declare a reference variable for the View Recipe button (btnRecipe), so start typing the word "Button" here ...

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Emulator: Process finished with exit code 0 (40 minutes ago)

13:9 CRLF UTF-8 4 spaces

Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

2:Resource Manager

3:Favorites

4:Build Variants

5:Layout Captures

6:TODO Terminal Build Logcat Profiler Run

7:MainActivity > onCreate()

8:13 package edu.udayton.healthyrecipes;
9 import ...
10 public class MainActivity extends AppCompatActivity {
11 @Override
12 protected void onCreate(Bundle savedInstanceState) {
13 super.onCreate(savedInstanceState);
14 setContentView(R.layout.activity_main);
15 Button

... until the object class android.widget.Button is displayed as shown here
Double-click to select this Button menu entry, or click it and hit the Enter key

Note that this code completion also adds the import statement for the Button widget, if this is the first time it is being used.

13:15 CRLF UTF-8 4 spaces

Event Log

Emulator: Process finished with exit code 0 (41 minutes ago)

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app

- manifests
- java
 - edu.udayton.healthyrecipes
 - MainActivity
 - Recipe
 - edu.udayton.healthyrecipes (androidTest)
 - edu.udayton.healthyrecipes (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values

Resource Manager

Gradle Scripts

2: Favorites

Build Variants

Layout Captures

attività_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)find[m findViewById(int id)
13    }
14
15 }
16
17 }
```

To continue using code completion,
type a space here, followed by
'btnRecipe = (Button)find' ...

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Event Log

expected

14:40 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

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generatedJava

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- values

Gradle Scripts

1: Project Structure

2: Favorites

Build Variants

Layout Captures

attività_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)find... // cursor here
13    }
14
15 }
16
17 }
```

... and when this code completion menu appears, select this menu entry

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Event Log

expected

14:40 CRLF UTF-8 4 spaces

Device File Explorer

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

1:Resource Manager

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

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- layout
- mipmap
- values

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

2:TODO

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById();
13    }
14
15 }
16
17 }
```

In the findViewById's argument list, type 'R.'

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Event Log

'findViewById(int)' in 'android.support.v7.app.AppCompatActivity' cannot be applied to '0'

14:49 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.
```

Note that in Android Java code, R stands for Resource.

You can see entries for the dimen, drawable and layout resources in this code completion menu, and if you scroll down, you will find an entry for the string resources.

BTW, this is the reason that, in the Android app development process, the layout (XML) files are first completely developed, and the Java code later added.

... and when the code completion menu appears, select this id entry

Device File Explorer

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run Event Log

'findViewById(int)' in 'android.support.v7.app.AppCompatActivity' cannot be applied to '0'

14:51 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

attività_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.);
13    }
14
15 }
16
17 }
```

Type a single period (.) here for more code completion

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Expression expected 14:53 CRLF UTF-8 4 spaces

Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

1:Resource Manager

app manifests java edu.udayton.healthyrecipes MainActivity Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res drawable layout mipmap values

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id. ....)
13    }
14
15 }
16
17 }
```

btnRecipe (= -1000101) directionsTextView1 (= -1000056) int
directionsTextView2 (= -1000059) int
directionsTitleTextView (= -1000121) int
gone (= -1000077) int
imageView (= -1000004) int
ingredient1TextView (= -1000058) int
ingredient2TextView (= -1000088) int
ingredient3TextView (= -1000005) int
ingredient4TextView (= -1000053) int
ingredientsTitleTextView (= -1000011) int

Select the btnRecipe entry on this code completion menu (i.e., the Button resource with the ID 'btnRecipe')

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Expression expected 14:54 CRLF UTF-8 4 spaces

Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Gradle

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res drawable layout mipmap values

Gradle Scripts

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe); I
13    }
14
15 }
16
17 }
```

Since all Java statements end with one, add a semi-colon (;) to the end of this line.

MainActivity > onCreate()

Todo Terminal Build Logcat Profiler Run Event Log

expected 14:64 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\\app\\src\\main\\java\\edu\\udayton\\healthyrecipes\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1-Project Resource Manager 2-Structure Favorites Build Variants Layout Captures 3-Event Log

```
activity_main.xml recipe.xml
```

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13    }
14
15 }
```

Say, did you notice we named our Button variable 'btnRecipe' (instead of the less-descriptive 'b'), even though the Button in the layout is also named 'btnRecipe'?

This is allowed, since the layout element is referenced using 'R.id.btnRecipe', so there is no ambiguity. It is therefore good practice to use the same name for a layout element as for the variable that references it, as this makes for more readable code.

Unlike the code in the textbook, we now add an event handler for the Button reference variable `btnRecipe` as a separately-declared and created reference variable.

As you will see, this makes the code a bit clearer. In addition, it shows the possibility of defining the event listener as an instance variable for the `MainActivity` class itself. This in turn allows defining a common event handler for multiple UI components.

MainActivity > onCreate()

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

1:Structure

2:Favorites

Build Variants

Layout Captures

2: Favorites

MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16    }
17
18}
19
20
21
```

Following this statement, add:

1. a blank line
2. the comment line as shown
3. another blank line

Emulator: Process finished with exit code 0 (43 minutes ago)

18:9 CRLF ÷ UTF-8 ÷ 4 spaces ÷

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\\app\\src\\main\\java\\edu\\udayton\\healthyrecipes\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures 3:Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (43 minutes ago) 18:9 CRLF UTF-8 4 spaces

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16    }
17
18    } // On this line, type 'OnClickList' ...
19
20
21 }
```

A screenshot of the Android Studio IDE showing the code editor for the `MainActivity.java` file. The code implements the `onCreate` method of the `AppCompatActivity` class. A yellow callout box with an arrow points to the closing brace of the `onCreate` method, containing the instruction: "On this line, type 'OnClickList' ...". This is likely a placeholder or a comment for adding an event listener for the `btnRecipe` button.

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res drawable layout mipmap values

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        OnClickList
17        I OnClickListener (android.view.View)
18        I OnClickListener (android.content.DialogInterface)
19        I OnChildClickListener (android.widget.ExpandableListView)
20        I OnContextClickListener (android.view.View)
21        I OnContextClickListener (android.view.GestureDetector)
22        I OnGroupClickListener (android.widget.ExpandableListView)
23        I OnItemClickListener (android.widget.AdapterView)
24        I OnItemLongClickListener (android.view.View)
25        I OnPreferenceClickListener (android.preference.Preference)
26        I OnItemLongClickListener (android.widget.AdapterView)
27        I OnMenuItemClickListener (android.view.MenuItem)
28    }
```

... and when this code completion menu appears, select this entry for the class android.view.View.OnClickListener

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Emulator: Process finished with exit code 0 (43 minutes ago)

18:20 CRLF UTF-8 4 spaces

Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

1:Resource Manager

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res drawable layout mipmap values

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new OnI
17    }
18
19
20
21
22 }
```

Continuing the declaration, type a space, followed by 'btnRecipeListener = new On' ...

I View.OnClickListener(...). (android
C QuickContactBadge (android.widget)
C ActionMenuItemView (android.support.v7.view.menu)
L Exception (java.lang)
L RuntimeException (java.lang)
L ArithmeticException (java.lang)
L ArrayIndexOutOfBoundsException (java.lang)
L ArrayStoreException (java.lang)
L ClassCastException (java.lang)
L ClassNotFoundException (java.lang)
L IllegalAccessException (java.lang)

Press Ctrl+Shift+Space to show only variants that are suitable by type

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Expression expected 19:56 CRLF UTF-8 4 spaces

Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project 2:Resource Manager 3:Gradle Scripts 4:Layout Captures 5:Favorites 6:Build Variants

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new On
17    }
18}
19
20
21
22
```

... and when the code completion menu appears, select this entry for the constructor of the class android.view.View.OnClickListener

View.OnClickListener(...)(android.view.View)
QuickContactBadge(android.widget)
ActionMenuItemView(android.support.v7.view.menu)
Exception(java.lang)
RuntimeException(java.lang)
ArithmaticException(java.lang)
ArrayIndexOutOfBoundsException(java.lang)
ArrayStoreException(java.lang)
ClassCastException(java.lang)
ClassNotFoundException(java.lang)
IllegalAccessException(java.lang)

Press Ctrl+Shift+Space to show only variants that are suitable by type

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run Event Log

Expression expected 19:56 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1: Project 2: Resource Manager 3: Favorites 4: Build Variants 5: Layout Captures 6: Favorites 7: Structure 8: Build Scripts

Activity_main.xml recipe.xml Recipe.java MainActivity

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button) findViewById(R.id.btnRecipe);
13
14        // add event handler for R.id.btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19
20
21            }
22        };
23    }
24
25
26
27 }
```

We named our event listener for `btnRecipe` '`btnRecipeListener`' (again, more descriptive).
Also, after the last code completion, we not only got the code block for the event listener, but also for its `onClick` event handler, to which we will add code to open the Recipe Activity.

Add a semi-colon to the end of the variable/initialization statement for the `btnRecipeListener` event listener

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure 3:Favorites 4:Build Variants 5:Layout Captures 6:Layout Captures

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19
20
21        }
22    }
23
24    }
25
26
27 }
```

As stated in the Android Developer site (<http://developer.android.com/training/basics/firstapp/starting-activity.html>):
"The Intent represents an app's 'intent to do something.' You can use intents for a wide variety of tasks, but most often they're used to start another activity.'

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (44 minutes ago) 24:11 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19
20
21
22
23
24
25
26
27    }}
```

We now add the Java code for the btnRecipe Button's click/tap event handler; this code will:

1. Declare/create an Intent reference variable to an Intent object for launching the Recipe activity
2. Call MainActivity's (inherited) startActivity method with the Intent variable from step 1

MainActivity > onCreate() > new OnClickListener > onClick()

TODO Terminal Build Logcat Profiler Run Emulator: Process finished with exit code 0 (44 minutes ago) 22:17 CRLF UTF-8 4 spaces Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures 3:Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (45 minutes ago) 22:58 CRLF UTF-8 4 spaces

Android

1:Project

app

- manifests
- java
 - edu.udayton.healthyrecipes
 - MainActivity
 - Recipe
 - edu.udayton.healthyrecipes (androidTest)
 - edu.udayton.healthyrecipes (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values

Gradle Scripts

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20            }
21        };
22    }
23
24 }
25
26
27 }
```

Add this comment line,
followed by 2 blank lines

MainActivity > onCreate() > new OnClickListener > onClick()

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project 1:Resource Manager 1:Gradle

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

I:Structure I:Favorites

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21            }
22        };
23    }
24
25
26
27
28
29 }
```

We'll use code completion again
Type 'Intent' here ...

MainActivity > onCreate() > new OnClickListener > onClick()

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (45 minutes ago) 24:17 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent
22                Intent (android.content)
23                IntentFilter (android.content)
24                IntentReceiverLeakedViolation (android.os.strictmode)
25                Intents (android.provider.Telephony.Mms)
26                Intents (android.provider.Telephony.Sms)
27                Intents (android.provider.ContactsContract)
28                IntentSender (android.content)
29                IntentService (android.app)
                IntentBuilder (android.support.v4.app.ShareCompat)
                IntentCompat (android.support.v4.content)
                IntentReader (android.support.v4.app.ShareCompat)
```

... and select the entry for the android.content.Intent class with the code completion menu appears

MainActivity > onCreate() > new OnClickListener > onClick()

TODO Terminal Build Logcat Profiler Run Emulator: Process finished with exit code 0 (45 minutes ago) 24:23 CRLF UTF-8 4 spaces Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res drawable layout mipmap values

Gradle Scripts

2:Structure

3:Favorites

Build Variants

Layout Captures

4:Layouts

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent[] Intent;
22            }
23        };
24    }
25}
26
27
28
29
30}
```

Complete the variable declaration/initialization by typing a space, followed by 'recipeIntent = new Intent()'

Then place the cursor inside the Intent constructor's argument list, and add the arguments for:

1. a reference to the MainActivity
2. a reference to the Recipe class

This is shown on the next 4 pages

MainActivity > onCreate() > new OnClickListener > onClick()

TODO Terminal Build Logcat Profiler Run Event Log

expected 25:23 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure 3:Favorites 4:Build Variants 5:Layout Captures 6:Layout Explorer 7:Device File Explorer

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent();
22            }
23        };
24    }
25}
```

For the first argument, type 'Main' ...

MainActivity > onCreate() > new OnClickListener > onClick()

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (45 minutes ago) 25:50 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

1:Resource Manager

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22            }
23        };
24    }
25}
```

Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);

>MainActivity (edu.udayton.healthyrecipes)
@MainThread (android.support.annotation)
MalformedInputException (java.nio.charset)
Intent.makeMainActivity (ComponentName mainActivity) (an.. Intent)
Intent.makeMainSelectorActivity (String selectorAction, .. Intent)
Intent.ACTION_MAIN (android.content) String

and select the entry for the MainActivity class when the code completion menu appears

MainActivity > onCreate() > new OnClickListener > onClick()

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (46 minutes ago) 25:54 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure 3:Favorites 4:Build Variants 5:Layout Captures 6:Layout Editor

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this);
22            }
23        };
24    }
25}
```

Type the suffix '.this' after MainActivity as shown here

Reminder: in Java, the suffix 'this' refers to the current object class

MainActivity > onCreate() > new OnClickListener > onClick()

TODO Terminal Build Logcat Profiler Run Event Log

Cannot resolve constructor Intent(edu.udayton.healthyrecipes.MainActivity)

25:67 CRLF ÷ UTF-8 ÷ 4 spaces ÷

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures 3:Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (47 minutes ago) 25:83 CRLF UTF-8 4 spaces

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23            }
24
25        };
26    }
27
28 }
29
30 }
```

For the second argument, type this argument for the Recipe class

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23            }
24        };
25
26        btnRecipe.setOnClickListener(btnRecipeListener);
27    }
28}
29
30
31
32}
```

We now add the call to the `startActivity` method with our new Intent to launch the Recipe activity

MainActivity > onCreate() > new OnClickListener > onClick()

TODO Terminal Build Logcat Profiler Run Emulator: Process finished with exit code 0 (47 minutes ago) 27:17 CRLF UTF-8 4 spaces Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project 1:Resource Manager 1:Gradle

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

I:Structure I:Favorites

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25            }
26        };
27    }
28}
29
30
31
32
```

MainActivity > onCreate() > new OnClickListener > onClick()

Add this comment line,
followed by 2 blank lines



TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (47 minutes ago) 27:59 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent); [ Then add the call to the
26                // startActivity method with the Intent object (reference variable)
27            }
28        };
29    }
30}
31}
32}
33}
34}
```

MainActivity > onCreate() > new OnClickListener > onClick()

TODO Terminal Build Logcat Profiler Run Emulator: Process finished with exit code 0 (48 minutes ago) 29:45 CRLF UTF-8 4 spaces Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

1:Resource Manager

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res drawable layout mipmap values

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

2:Build Variants

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent);
26
27            }
28        };
29
30        btnRecipe.setOnClickListener(btnRecipeListener);
31    }
32
33}
```

Place the cursor at the end of the bListener's declaration/creation statement, and add (shown on next page):

1. a blank line
2. a comment as shown
3. a second blank line

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (48 minutes ago) 31:11 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

1:Resource Manager

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

3:TODO

Terminal Build Logcat Profiler Run

MainActivity > onCreate()

1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7 @Override
8 protected void onCreate(Bundle savedInstanceState) {
9 super.onCreate(savedInstanceState);
10 setContentView(R.layout.activity_main);
11
12 Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14 // add event handler for Button btnRecipe
15
16 View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17 @Override
18 public void onClick(View v) {
19 // Create an Intent for the Recipe screen
20
21 Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23 // Start a new Recipe Activity with the recipeIntent
24
25 startActivity(recipeIntent);
26
27 }
28 };
29
30 // set the btnRecipeListener as the btnRecipe's event handler
31 }
32
33 // set the btnRecipeListener as the btnRecipe's event handler
34}
35 }
36 }
37 }
38 }

Type 'btnRecipe.setOnCli' here, and ...

Device File Explorer

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res drawable layout mipmap values

Gradle Scripts

2:Structure

3:Favorites

Build Variants

Layout Captures

MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent);
26
27            }
28        };
29
30        // set the btnRecipeListener as the btnRecipe's event handler
31
32        btnRecipe.setOnClickListener(btnRecipeListener);
33    }
34
35    ...
36}
37
38}
```

MainActivity > onCreate()

... select the entry for the setOnClickListener method with the code completion menu appears

TODO Terminal Build Logcat Profiler Run Event Log

expected 35:27 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

1:Resource Manager

app manifests java

edu.udayton.healthyrecipes

- MainActivity
- Recipe

edu.udayton.healthyrecipes (androidTest)

edu.udayton.healthyrecipes (test)

generatedJava

res

- drawable
- layout
- mipmap
- values

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

3:MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent);
26
27            }
28        };
29
30        // set the btnRecipeListener as the btnRecipe's event handler
31
32        btnRecipe.setOnClickListener(btnRecipeListener); []
33    }
34
35 }
```

Add the btnRecipeListener reference as the method arguement, to set it as the Button b's click/tap event listener

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (49 minutes ago) 35:57 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Save All (Ctrl+S) Save your work!

1:Project

Android

app

- manifests
- java
 - edu.udayton.healthyrecipes
 - MainActivity
 - Recipe
 - edu.udayton.healthyrecipes (androidTest)
 - edu.udayton.healthyrecipes (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values

Resource Manager

Gradle Scripts

2:Structure

3:Favorites

Build Variants

Layout Captures

4:TODO Terminal Build Logcat Profiler Run

MainActivity > onCreate()

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent);
26
27            }
28        };
29
30        // set the btnRecipeListener as the btnRecipe's event handler
31
32        btnRecipe.setOnClickListener(btnRecipeListener);
33
34    }
35
36
37
38 }
```

Device File Explorer

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Build the project

HealthyRecipes Make Project (Ctrl+F9) MainActivity.java healthyrecipes MainActivity

1:Project

Android

app

- manifests
- java
 - edu.udayton.healthyrecipes
 - MainActivity
 - Recipe
 - edu.udayton.healthyrecipes (androidTest)
 - edu.udayton.healthyrecipes (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values

Resource Manager

Gradle Scripts

2:Structure

3:Favorites

Build Variants

Layout Captures

4:Build the project

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent);
26
27            }
28        };
29
30        // set the btnRecipeListener as the btnRecipe's event handler
31
32        btnRecipe.setOnClickListener(btnRecipeListener);
33
34    }
35
36
37
38 }
```

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (49 minutes ago) 35:57 CRLF UTF-8 4 spaces

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Launch the AVD manager

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

1:Resource Manager

1:Gradle Scripts

1:Favorites

1:Build Variants

1:Layout Captures

1:TODO Terminal Build Logcat Profiler Run

1:Gradle build finished in 5 s 428 ms (moments ago)

1:Event Log

1:Android

app manifests java edu.udayton.healthyrecipes MainActivity Recipe

edu.udayton.healthyrecipes (androidTest) edu.udayton.healthyrecipes (test)

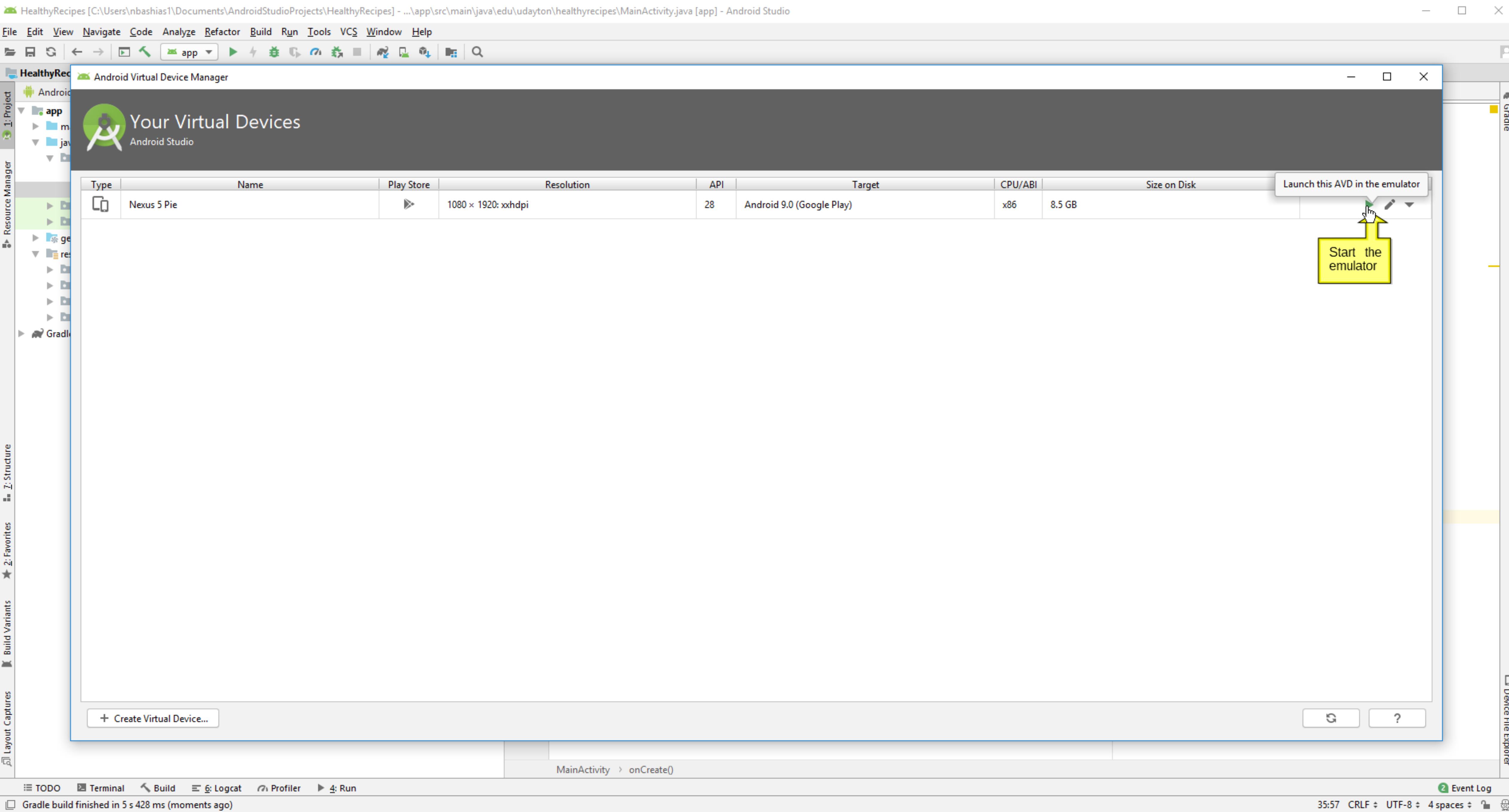
generatedJava

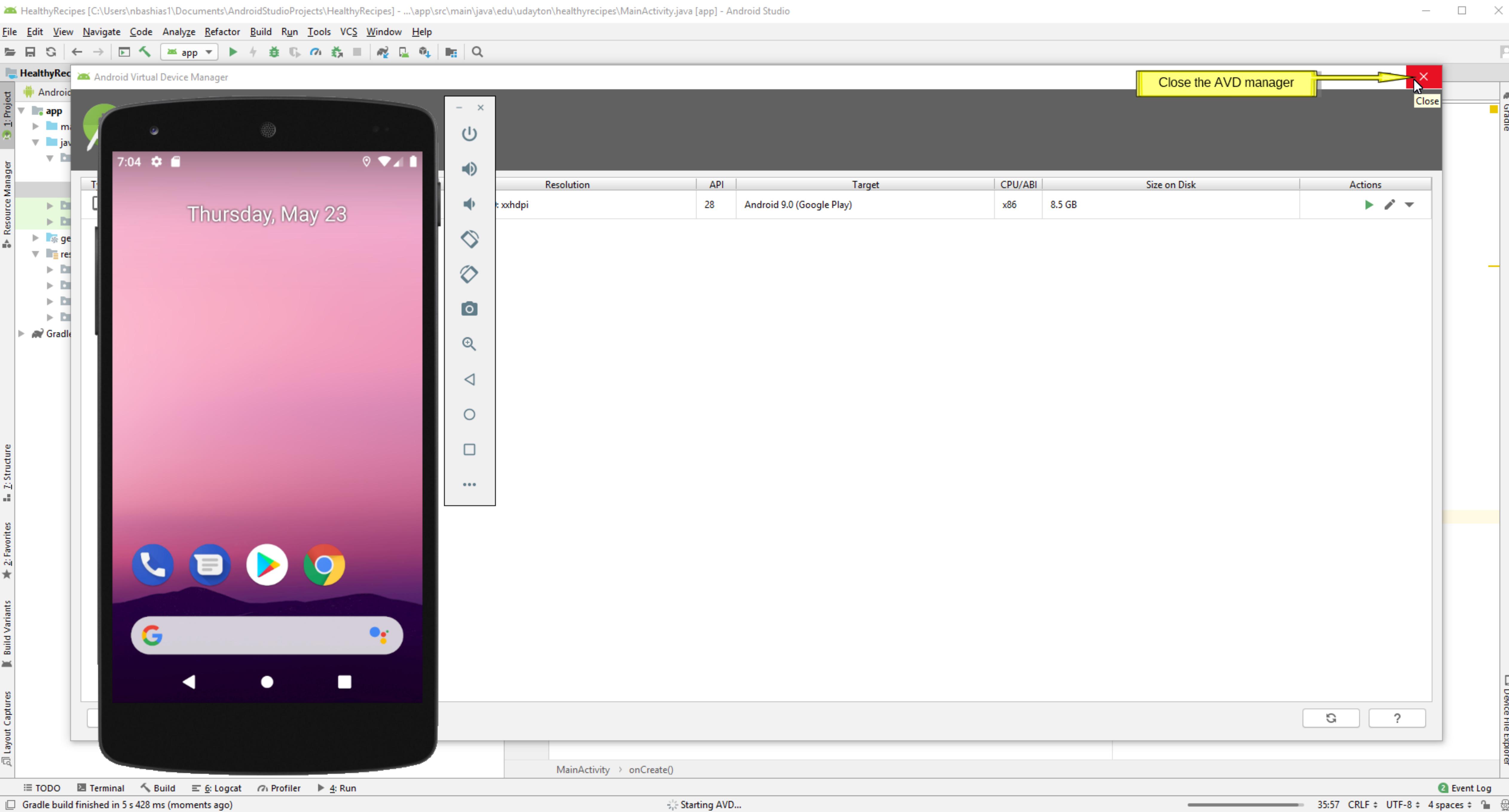
res drawable layout mipmap values

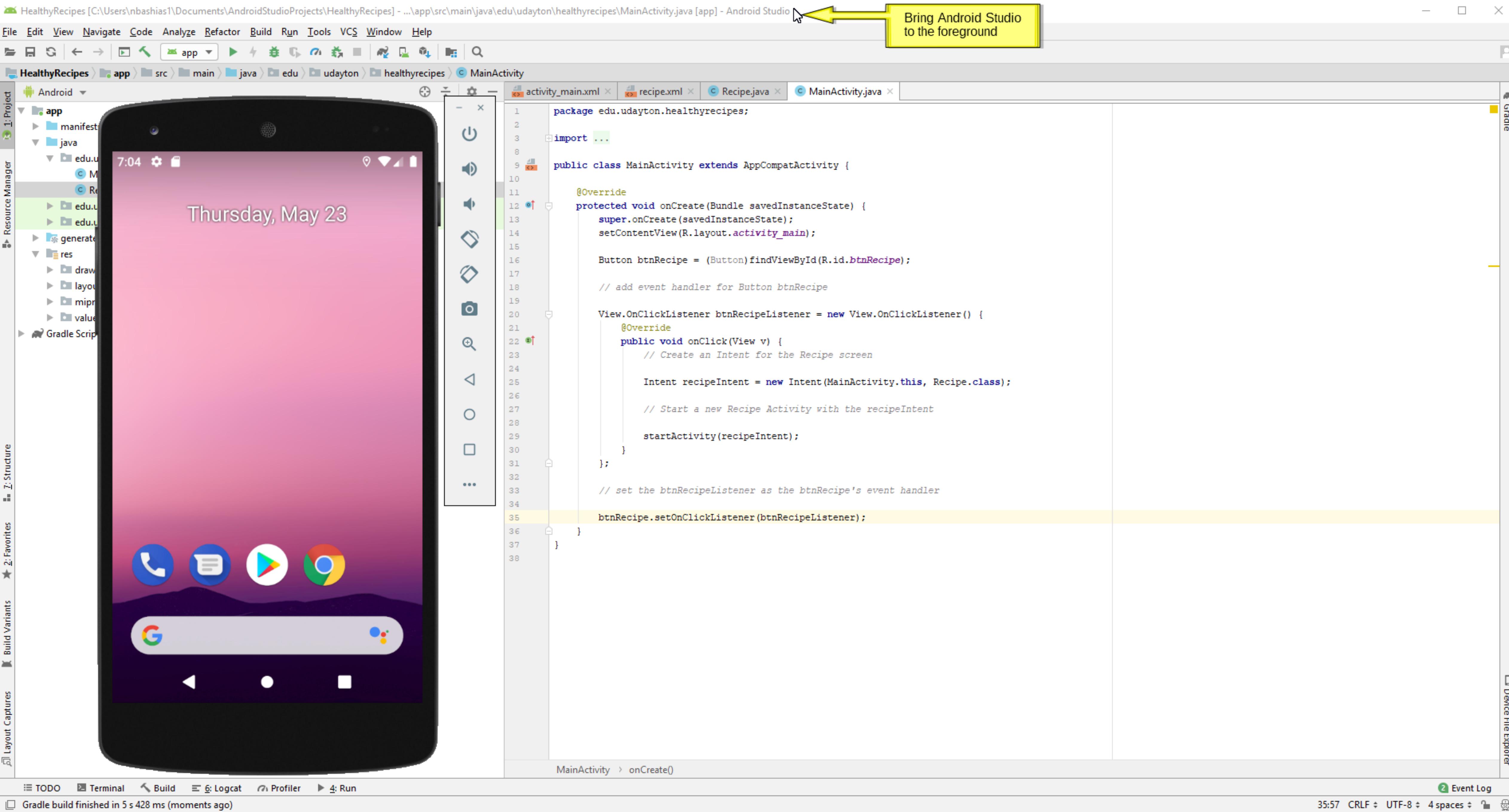
activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent);
26
27            }
28        };
29
30        // set the btnRecipeListener as the btnRecipe's event handler
31
32        btnRecipe.setOnClickListener(btnRecipeListener);
33    }
34
35 }
36
37
38 }
```

MainActivity > onCreate()







HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\\app\\src\\main\\java\\edu\\udayton\\healthyrecipes\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Run the app

Run 'app' (Shift+F10)

activity_main.xml recipe.xml Recipe.java MainActivity.java

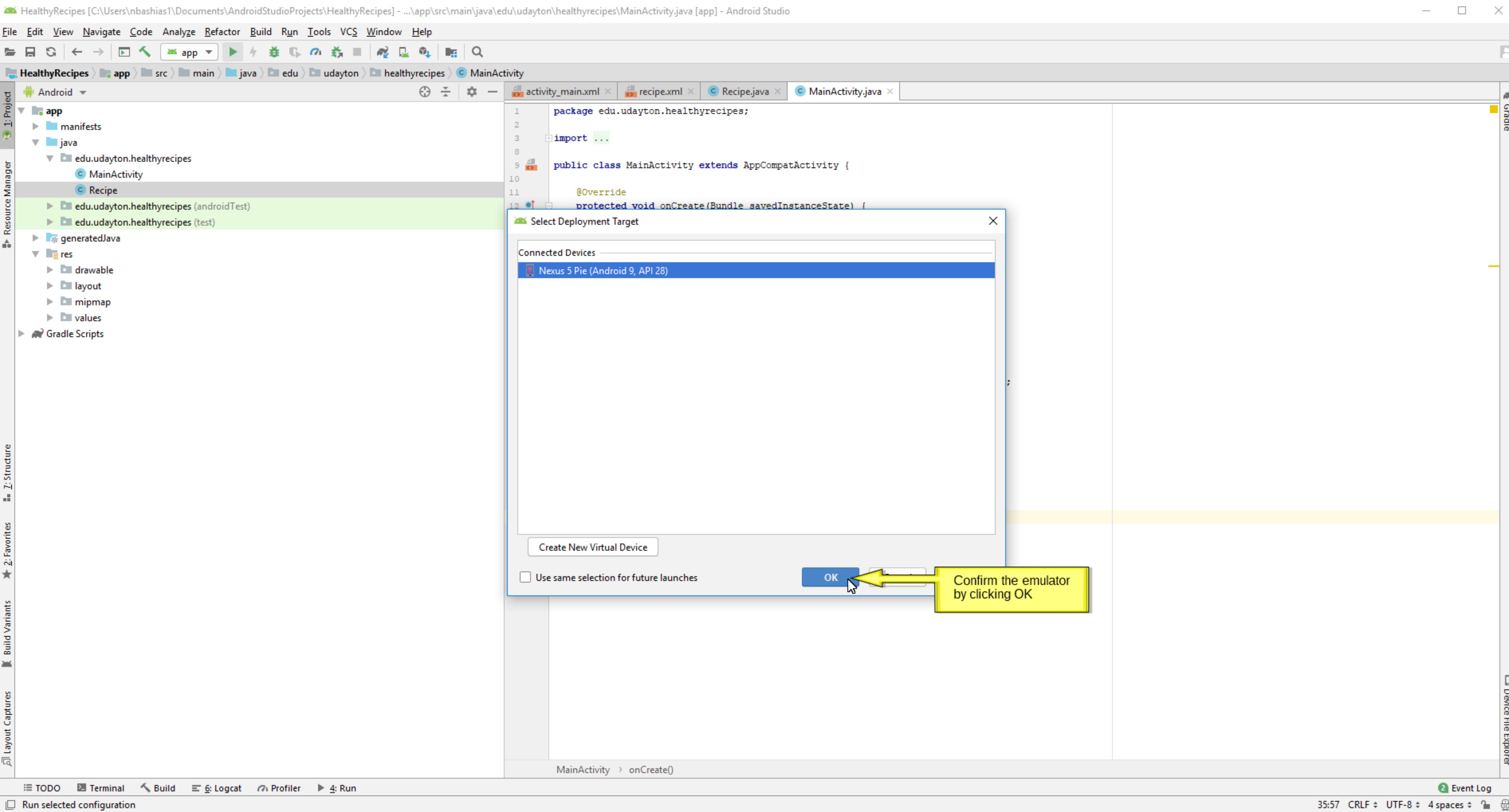
```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent);
26
27            }
28        };
29
30        // set the btnRecipeListener as the btnRecipe's event handler
31
32        btnRecipe.setOnClickListener(btnRecipeListener);
33
34    }
35
36
37
38}
```

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Run selected configuration

35:57 CRLF UTF-8 4 spaces



HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\\app\\src\\main\\java\\edu\\udayton\\healthyrecipes\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifest java edu.u healthyRecipes MainActivity.java

Resource Manager

1:Project

app manifest java edu.u healthyRecipes MainActivity.java

generate

res draw layout mipmap values

Gradle Scripts

2:Structure

3:Favorites

Build Variants

Layout Captures

View Recipe

Click the 'View Recipe' button ...

activity_main.xml recipe.xml Recipe.java MainActivity.java

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent);
26
27            }
28
29        };
23
30        // set the btnRecipeListener as the btnRecipe's event handler
31
32        btnRecipe.setOnClickListener(btnRecipeListener);
33
34    }
35
36}
37
38}
```

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 4 s 11 ms (moments ago)

35:57 CRLF UTF-8 4 spaces

Event Log

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\\app\\src\\main\\java\\edu\\udayton\\healthyrecipes\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifest java edu.u... Recipe.java MainActivity.java

activity_main.xml recipe.xml

```
1 package edu.udayton.healthyrecipes;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10        setContentView(R.layout.activity_main);
11
12        Button btnRecipe = (Button)findViewById(R.id.btnRecipe);
13
14        // add event handler for Button btnRecipe
15
16        View.OnClickListener btnRecipeListener = new View.OnClickListener() {
17            @Override
18            public void onClick(View v) {
19                // Create an Intent for the Recipe screen
20
21                Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);
22
23                // Start a new Recipe Activity with the recipeIntent
24
25                startActivity(recipeIntent);
26
27            }
28
29
30            // set the btnRecipeListener as the btnRecipe's event handler
31
32            btnRecipe.setOnClickListener(btnRecipeListener);
33
34        }
35    }
36
37
38}
```

Resource Manager

1: Project

2: Structure

3: Favorites

4: Build Variants

5: Layout Captures

6: TODO

7: Terminal

8: Build

9: Logcat

10: Profiler

11: Run

12: Event Log

13: Gradle build finished in 4 s 11 ms (moments ago)

14: 35:57 CRLF UTF-8 4 spaces

15: Healthy Recipes

16: Bruschetta Recipe

17: Ingredients

18: 4 plum tomatoes

19: 6 basil leaves

20: 3 garlic cloves, chopped

21: 3 TB olive oil

22: Directions

23: Combine the ingredients and add salt to taste.

24: Top French bread slices with mixture.

25: ... to see the recipe for
26: Brushetta! Looks good!

27: 28: 29: 30: 31: 32: 33: 34: 35: 36: 37: 38:

Device File Explorer

HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...app\src\main\java\edu\udayton\healthyrecipes\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HealthyRecipes app src main java edu udayton healthyrecipes MainActivity

1:Project

Android

app manifest java edu.u healthyRecipes MainActivity Recipe.java MainActivity.java

activity_main.xml recipe.xml Recipe.java MainActivity.java

1:Project

app manifest java edu.u healthyRecipes MainActivity Recipe.java MainActivity.java

Resource Manager

1:Project

app manifest java edu.u healthyRecipes MainActivity Recipe.java MainActivity.java

Java

edu.u healthyRecipes MainActivity Recipe.java MainActivity.java

Bruschetta Recipe

7:04 7:04

Healthy Recipes

Bruschetta Recipe

Ingredients

4 plum tomatoes
6 basil leaves
3 garlic cloves, chopped
3 TB olive oil

Directions

Combine the ingredients and add salt to taste.

Top French bread slices

What happens if you now click the back button?
Is it what you expected to happen?

MainActivity > onCreate()

package edu.udayton.healthyrecipes;

import ...

public class MainActivity extends AppCompatActivity {

 @Override

 protected void onCreate(Bundle savedInstanceState) {

 super.onCreate(savedInstanceState);

 setContentView(R.layout.activity_main);

 Button btnRecipe = (Button)findViewById(R.id.btnRecipe);

 // add event handler for Button btnRecipe

 View.OnClickListener btnRecipeListener = new View.OnClickListener() {

 @Override

 public void onClick(View v) {

 // Create an Intent for the Recipe screen

 Intent recipeIntent = new Intent(MainActivity.this, Recipe.class);

 // Start a new Recipe Activity with the recipeIntent

 startActivity(recipeIntent);

 }

 };

 // set the btnRecipeListener as the btnRecipe's event handler

 btnRecipe.setOnClickListener(btnRecipeListener);

 }

}

This concludes Lesson 2

Device File Explorer