

CSM3505

Native Mobile Programming

Lab 4

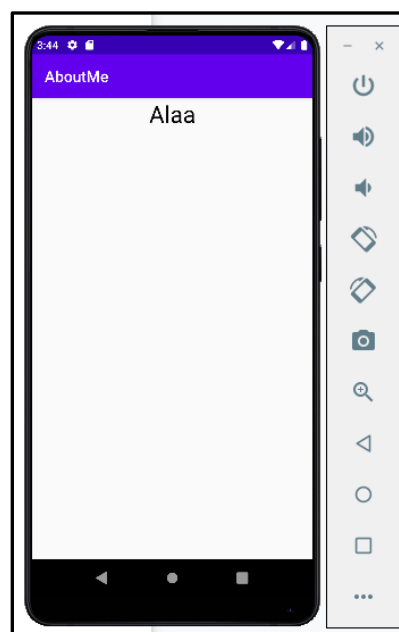
Alaa Aldeen Abouzeid
s56608

Task 1: Android Kotlin Fundamentals: LinearLayout using the Layout Editor

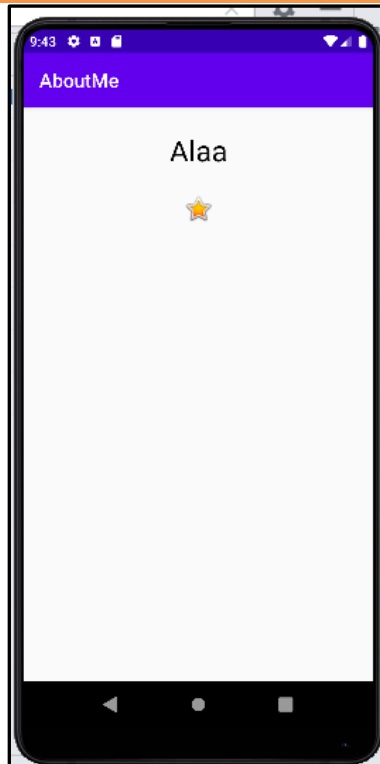
```
activity_main.xml x
1
2 <LinearLayout
3     xmlns:android="http://schemas.android.com/apk/res/android"
4     xmlns:tools="http://schemas.android.com/tools"
5     xmlns:app="http://schemas.android.com/apk/res-auto"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     android:orientation="vertical"
9     tools:context=".MainActivity">
10 </LinearLayout>
11
```

Create a string resource

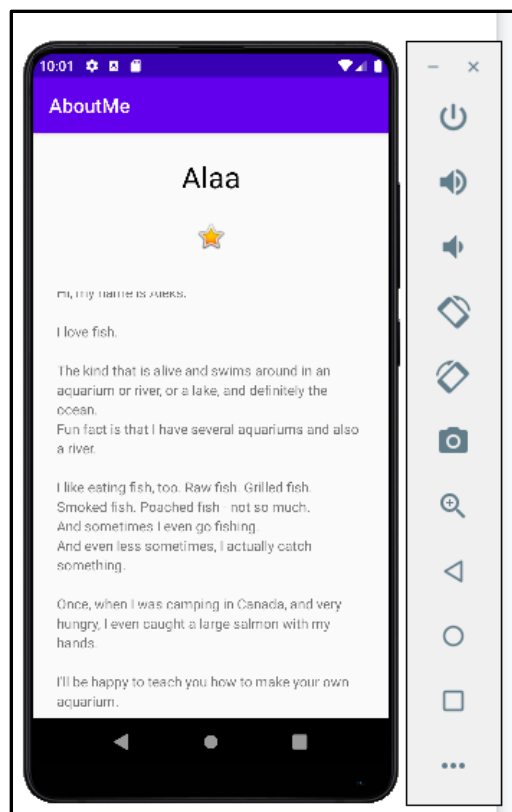
```
<resources>
    <string name="app_name">AboutMe</string>
    <string name="name">Alaa Aldeen</string>
</resources>
```



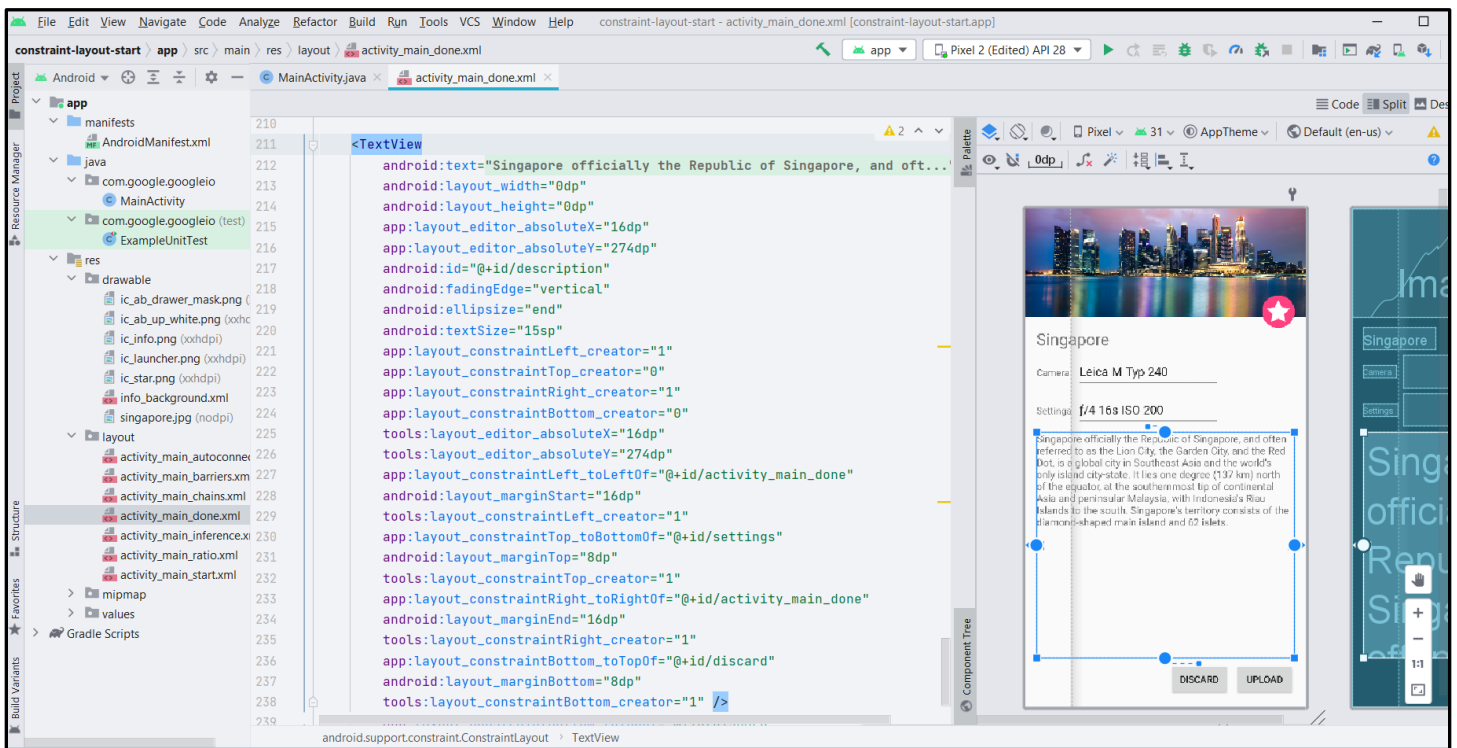
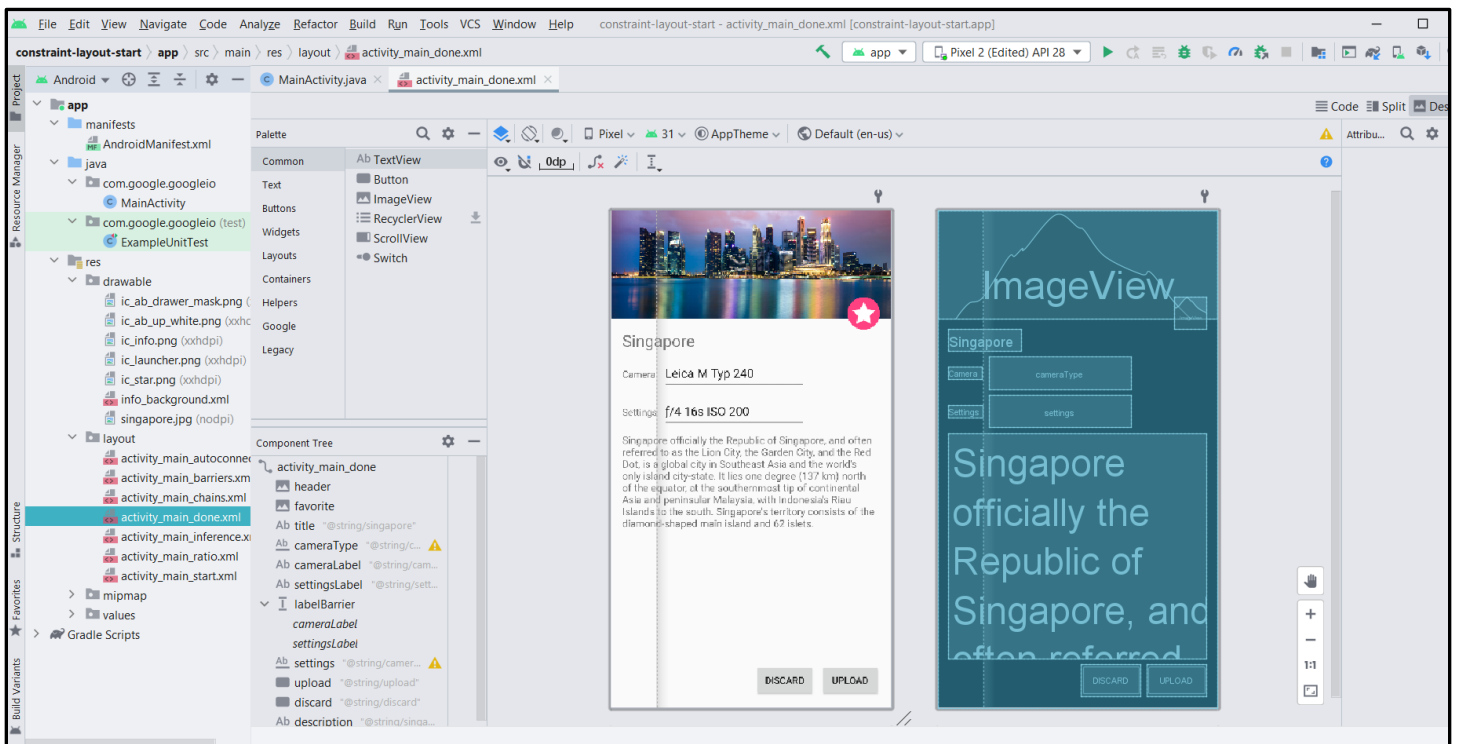
Task: Add an ImageView

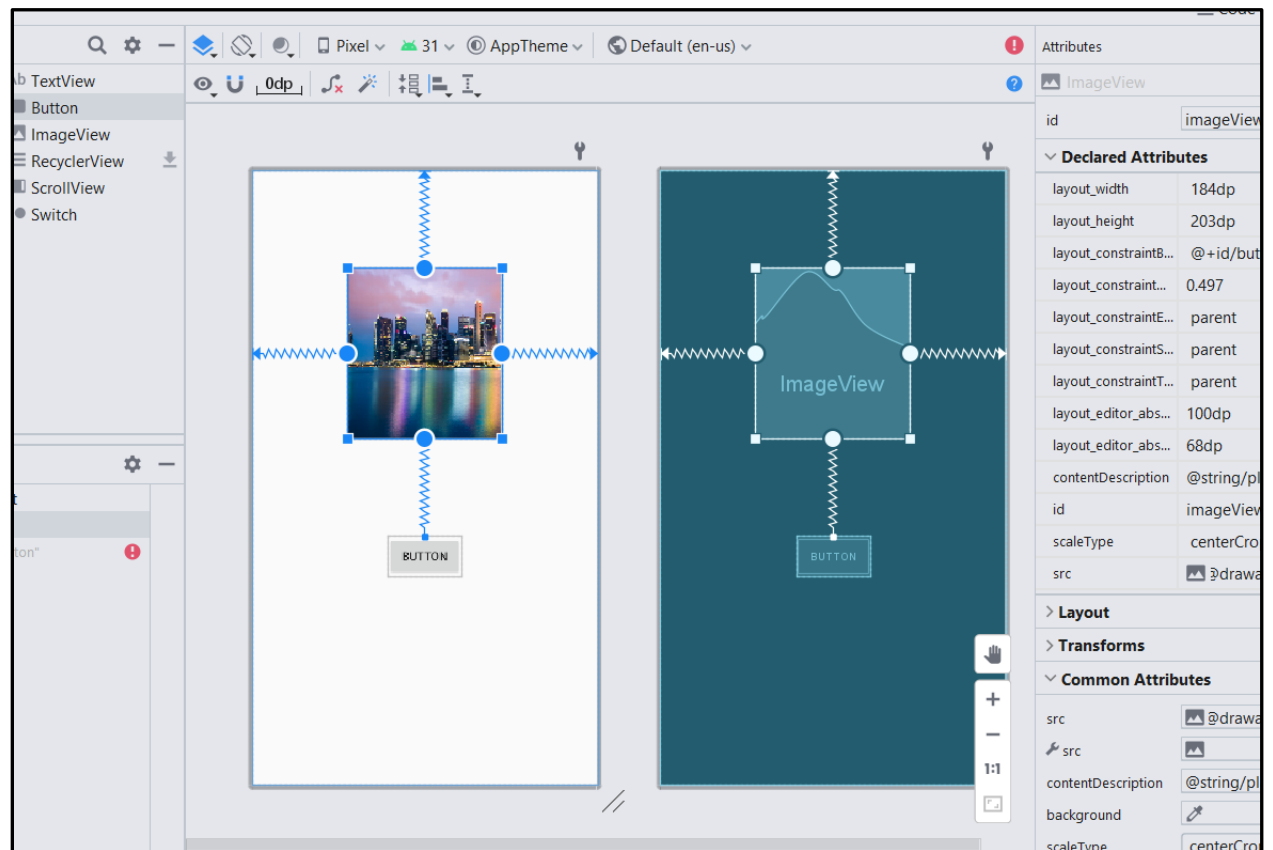
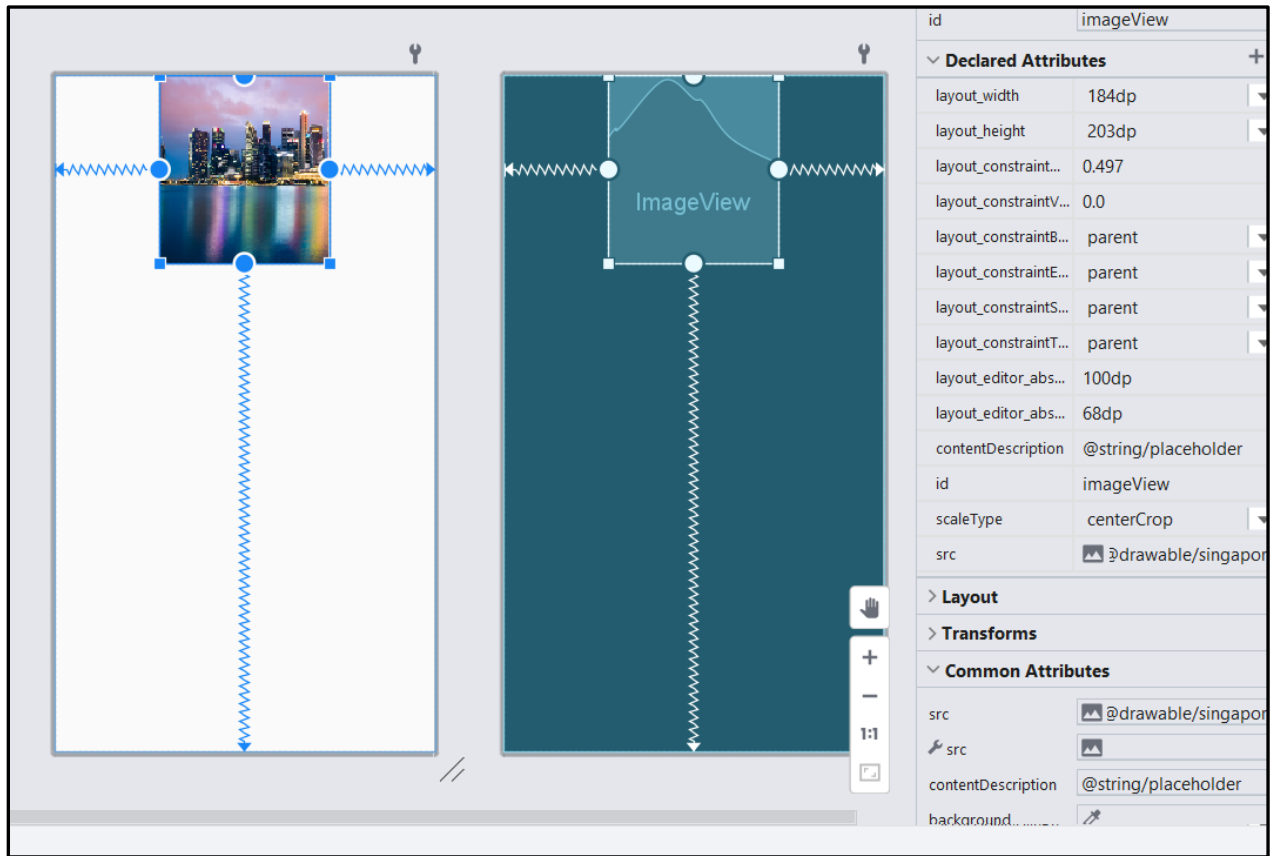


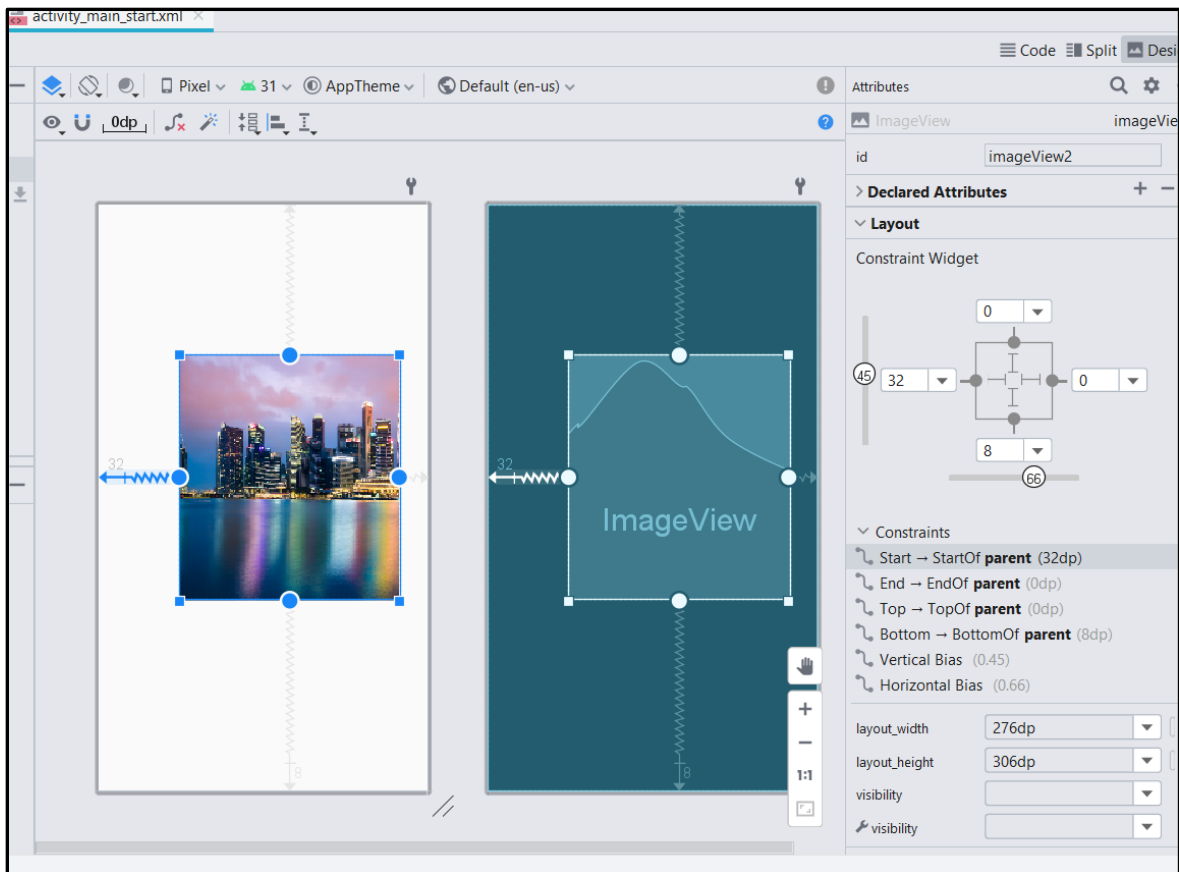
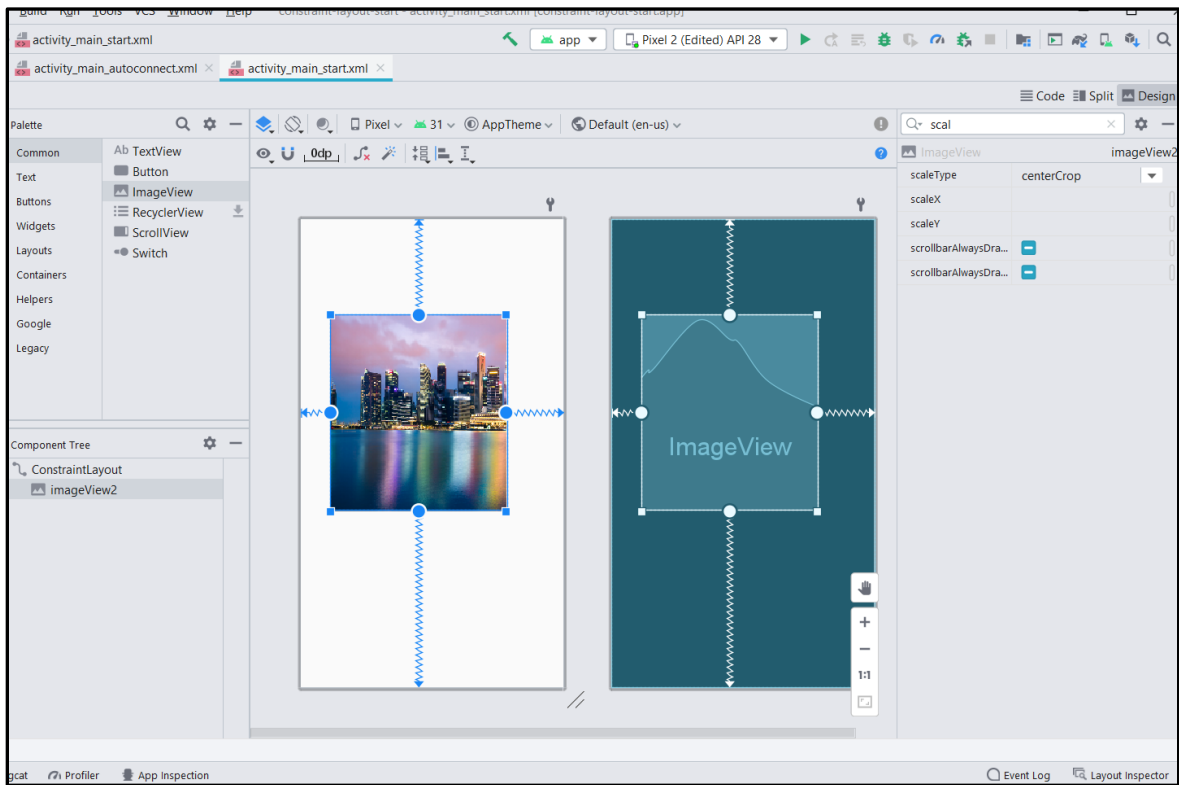
Add a ScrollView that contains a TextView

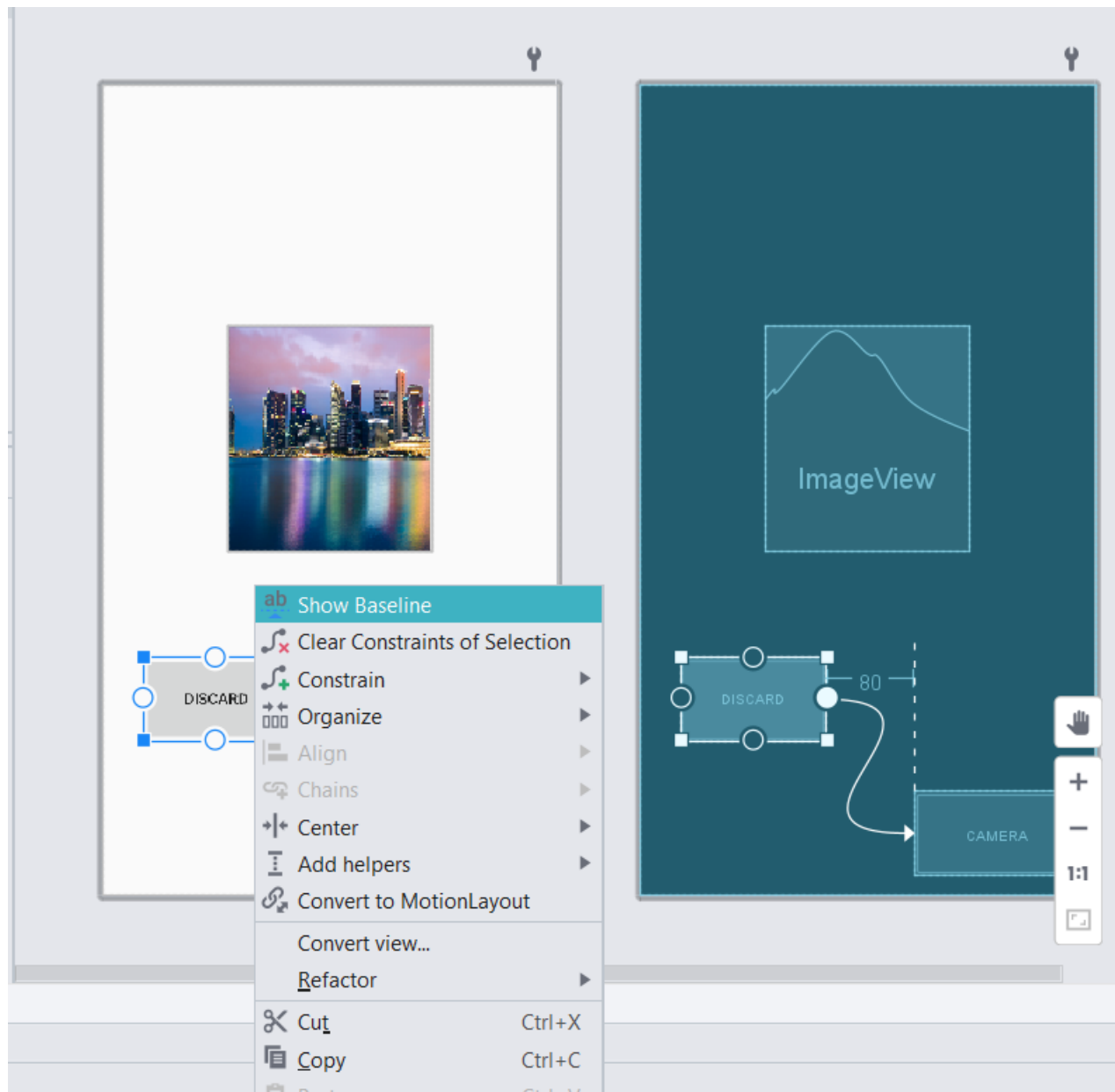


Task 2: Use ConstraintLayout to design your Android views

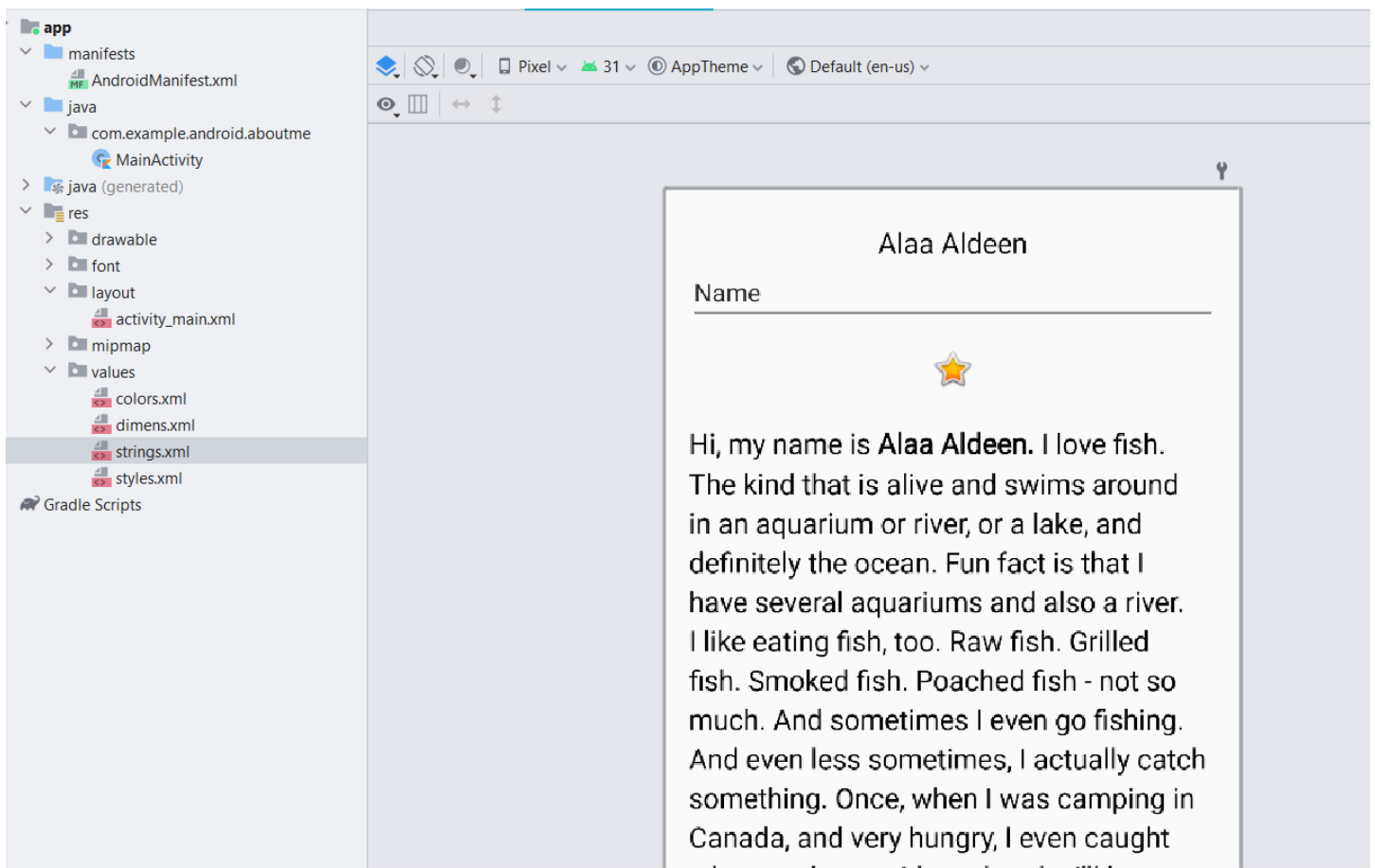
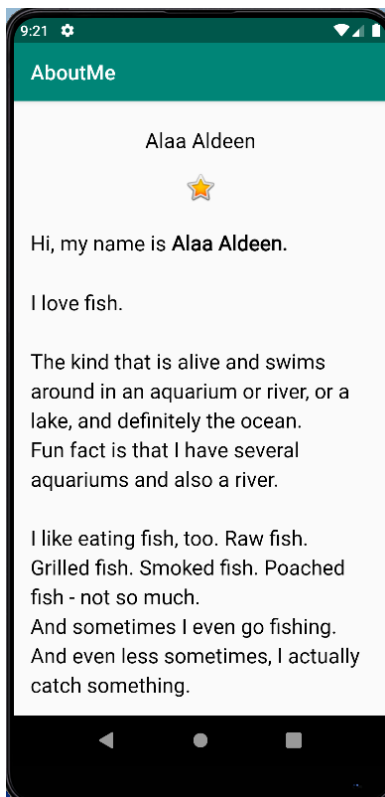


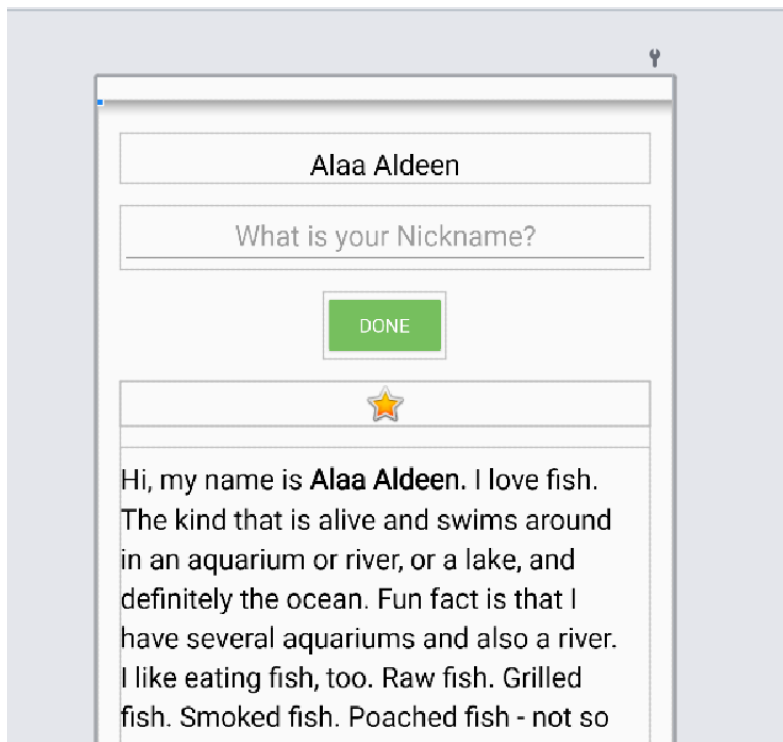
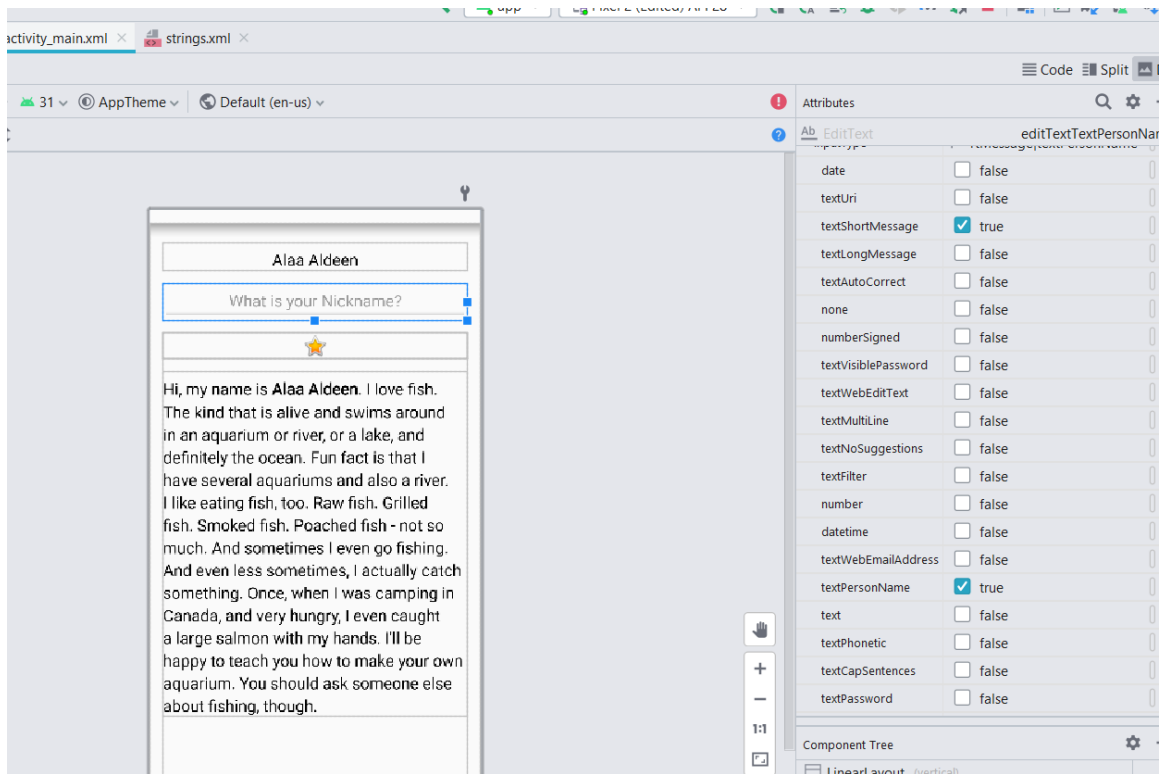






Task 3: Android Kotlin Fundamentals: Add user interactivity





```

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        findViewById<Button>(R.id.done_button).setOnClickListener { it: View!
            addNickname(it)
        }
        findViewById<TextView>(R.id.nickname_text).setOnClickListener { it: View!
            updateNickname(it)
        }
    }

    private fun addNickname(view: View) {
        val editText = findViewById<EditText>(R.id.t1)
        val nicknameTextView = findViewById<TextView>(R.id.nickname_text)
        nicknameTextView.text = editText.text
        editText.visibility = View.GONE

        view.visibility = View.GONE
        nicknameTextView.visibility = View.VISIBLE
        val inputMethodManager = getSystemService(Context.INPUT_METHOD_SERVICE) as InputMethodManager
        inputMethodManager.hideSoftInputFromWindow(view.windowToken, flags: 0)
    }
}

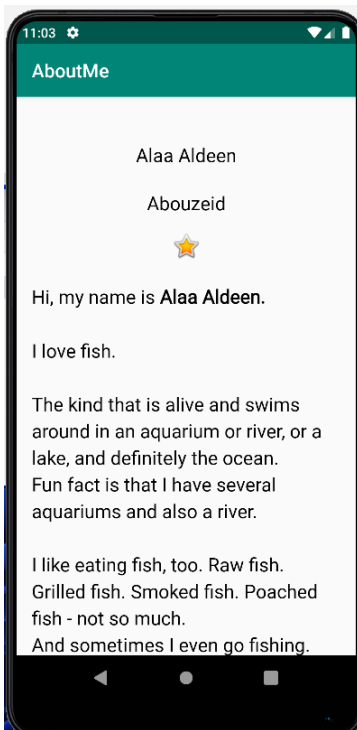
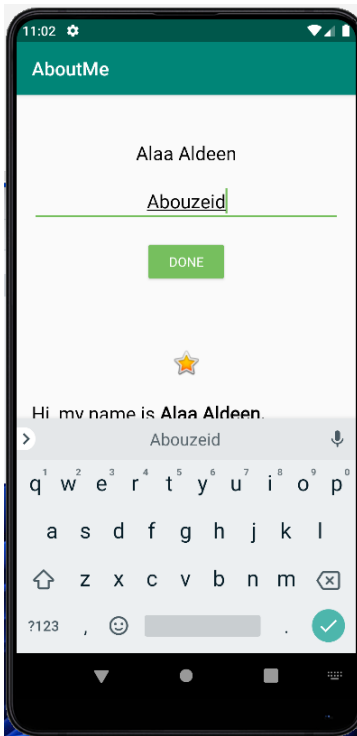
```

```

private fun updateNickname(view: View) {
    val editText = findViewById<EditText>(R.id.t1)
    val doneButton = findViewById<Button>(R.id.done_button)

    editText.visibility = View.VISIBLE
    doneButton.visibility = View.VISIBLE
    view.visibility = View.GONE
    editText.requestFocus()
}
}

```



Task 4: Activities and Intents | Android Developers

