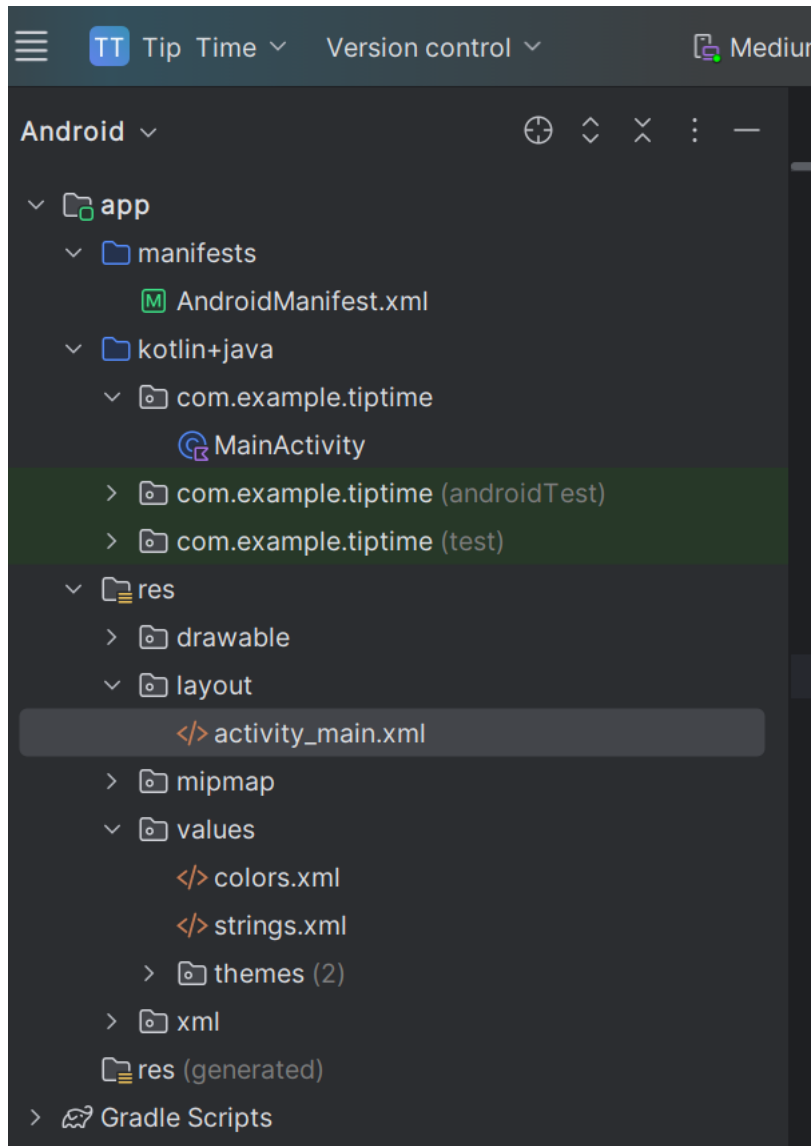


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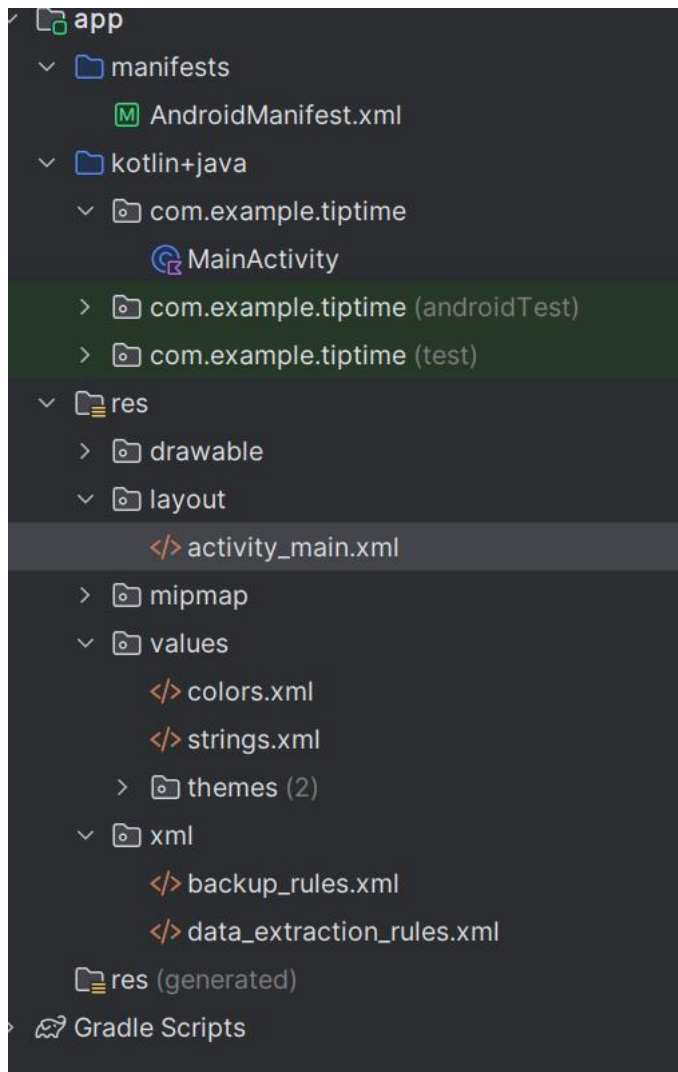
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Lab 5.2. Calculate the tip

1.Before you begin



2. Starter app overview



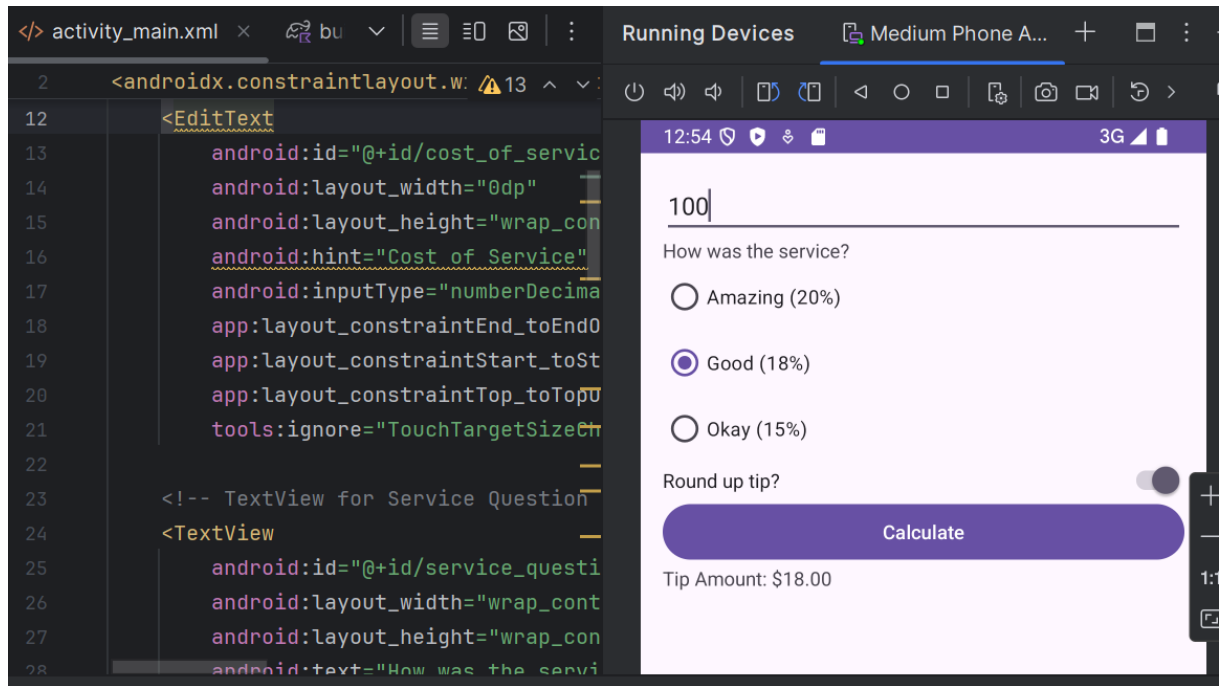
3. View binding

```
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import androidx.core.view.updatePadding
import com.example.tiptime.databinding.ActivityMainBinding

class MainActivity : AppCompatActivity() {
    lateinit var binding: ActivityMainBinding

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)
    }
}
```

4. Calculate the tip

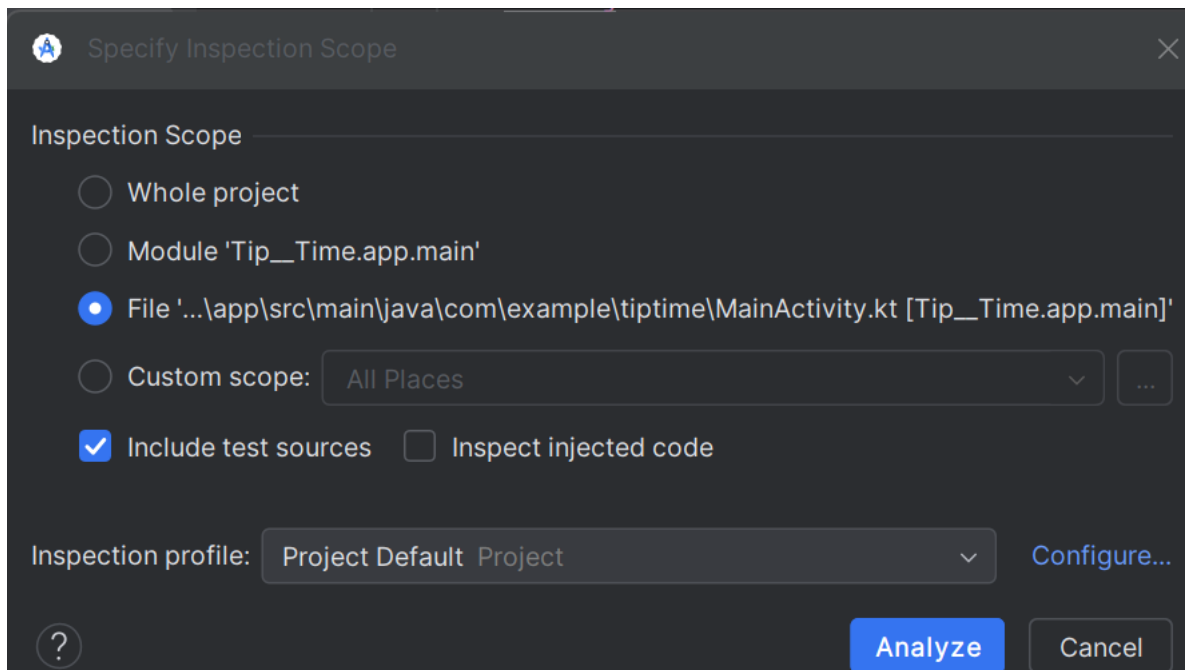


5. Test and debug

6. Adopt good coding practices

```
private fun calculateTip() {  
    val stringInTextField = binding.costOfService.text.toString()  
    val cost = stringInTextField.toDouble()  
    val selectedId = binding.tipOptions.checkedRadioButtonId  
    val tipPercentage = when (selectedId) {  
        R.id.option_twenty_percent -> 0.20  
        R.id.option_eighteen_percent -> 0.18  
        else -> 0.15  
    }  
}
```

Thêm từ khoá private



```
class MainActivity : AppCompatActivity() {  
    private lateinit var binding: ActivityMainBinding
```

Tìm và thêm các từ khoá private

7.Solution code

```
1 package com.example.tiptime  
2  
3 import android.os.Bundle  
4 import androidx.appcompat.app.AppCompatActivity  
5 import androidx.core.view.ViewCompat  
6 import androidx.core.view.WindowInsetsCompat  
7 import androidx.core.view.updatePadding  
8 import com.example.tiptime.databinding.ActivityMainBinding  
9 import java.text.NumberFormat  
10  
11 class MainActivity : AppCompatActivity() {  
12     private lateinit var binding: ActivityMainBinding  
13  
14     override fun onCreate(savedInstanceState: Bundle?) {...}  
15  
16     private fun calculateTip() {...}  
17  
18 }  
19  
20  
21  
22  
23
```

8.Summary

9.More codelabs t improve your ui

10.learn more

11.practice on your own