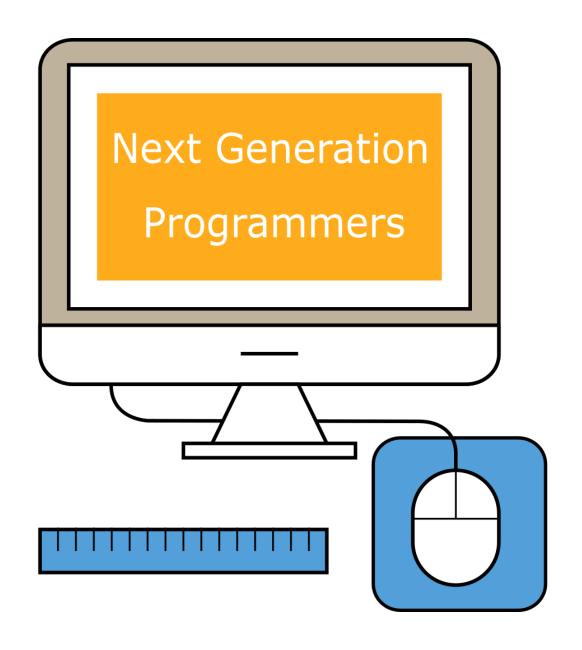
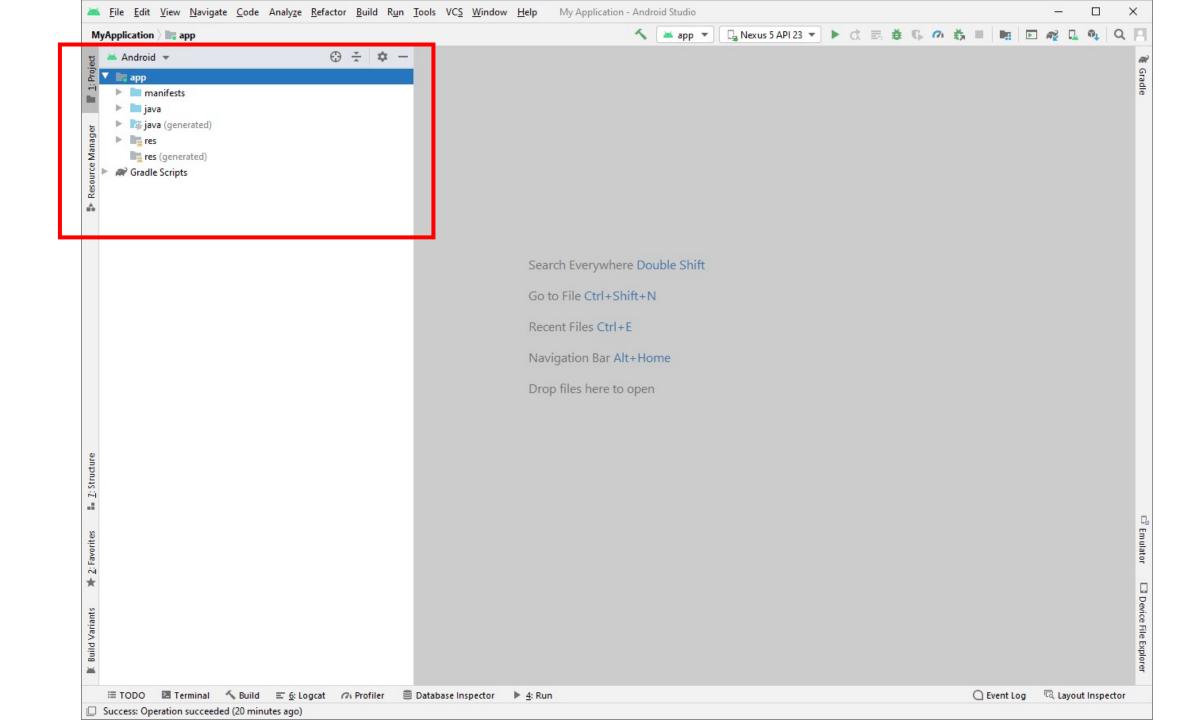
## Introduction to Android Studio



- Android Studio is an IDE (=
  integrated development
  environment) for writing code for
  Android OS (=Operating System)
  - IDE is like a "Word" processor but for code
  - It simplifies writing, structuring, debugging code (=find errors/mistakes)
- We will learn how to create Android apps in Java language
  - 80% of mobile apps for Android are written in Java



Task 1: Let's open & run a ready-made app



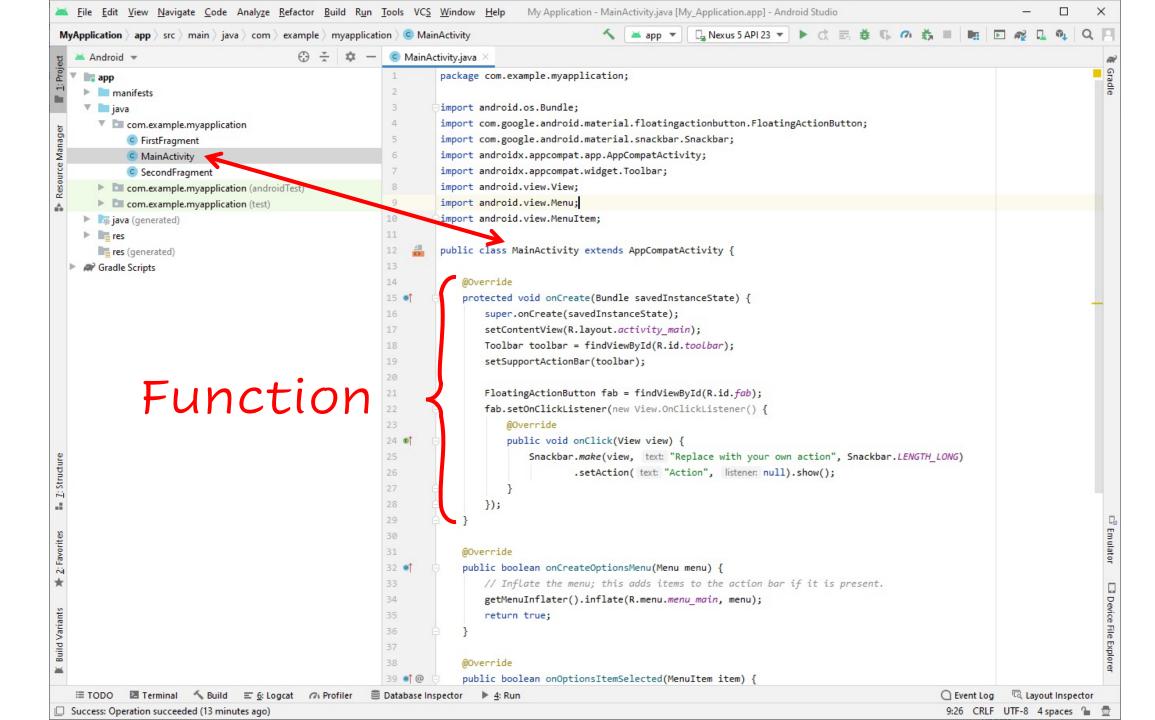
```
<u>File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help</u>
                                                                                                                                                                                 My Application - MainActivity.java [My_Application.app] - Android Studio
                                                                                                MyApplication app src main java com example myapplication amanactivity
                                          ① ÷ 🌣

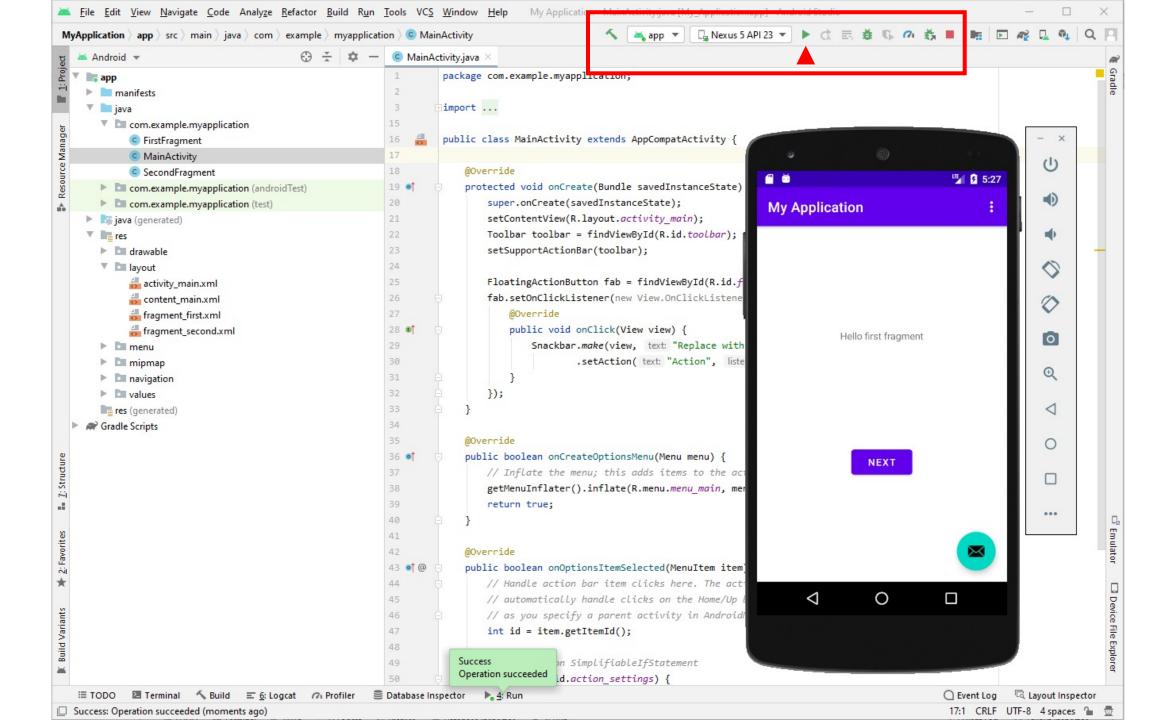
    MainActivity.java

   package com.example.myapplication;
    app
    manifests
    ▼ iava
                                                                    import ...
       com.example.myapplication
                                                           16
                                                                    public class MainActivity extends AppCompatActivity {

    FirstFragment

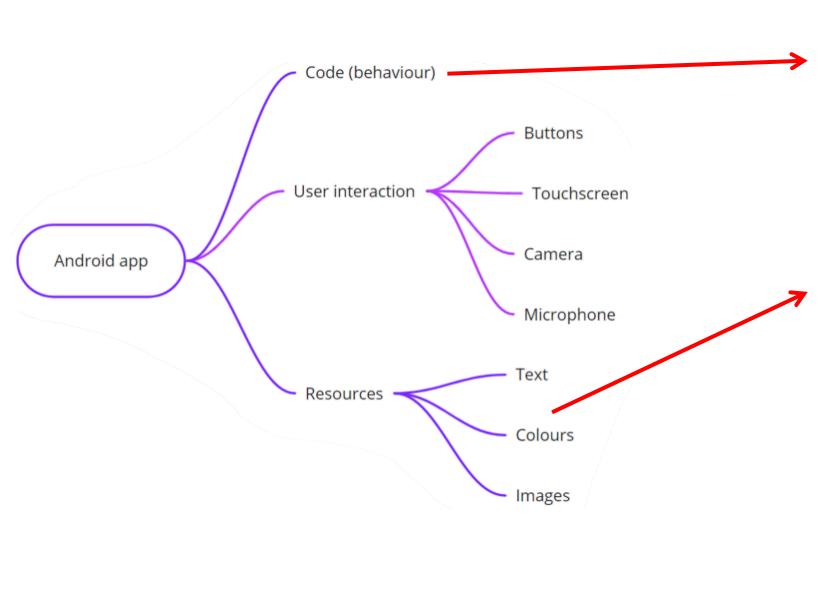
            MainActivity
                                                          18
            SecondFragment
                                                          19 0
                                                                        protected void onCreate(Bundle savedInstanceState) {
       com.example.myapplication (androidTest)
       com.example.myapplication (test)
                                                          20
                                                                            super.onCreate(savedInstanceState);
                                                          21
                                                                            setContentView(R.layout.activity main);
    lack java (generated)
                                                                            Toolbar toolbar = findViewById(R.id.toolbar);
    res
                                                          23
                                                                            setSupportActionBar(toolbar);
       res (generated)
                                                          24
    Gradle Scripts
                                                          25
                                                                            FloatingActionButton fab = findViewById(R.id.fab);
                                                          26
                                                                            fab.setOnClickListener(new View.OnClickListener() {
                                                          27
                                                                                @Override
                                                          28 0
                                                                                public void onClick(View view) {
                                                          29
                                                                                    Snackbar.make(view, text: "Replace with your own action", Snackbar.LENGTH LONG)
                                                          30
                                                                                            .setAction( text: "Action", listener: null).show();
                                                                           });
                                                          34
                                                                        @Override
                                                          36 €
                                                                        public boolean onCreateOptionsMenu(Menu menu) {
Z: Structure
                                                                           // Inflate the menu; this adds items to the action bar if it is present.
                                                          38
                                                                           getMenuInflater().inflate(R.menu.menu main, menu);
                                                          39
                                                                           return true;
..
                                                          40
2: Favorites
                                                          41
                                                          42
                                                                        @Override
                                                          43 01 @
                                                                        public boolean onOptionsItemSelected(MenuItem item) {
*
                                                          44
                                                                           // Handle action bar item clicks here. The action bar will
                                                          45
                                                                           // automatically handle clicks on the Home/Up button, so long
Build Variants
                                                          46
                                                                           // as you specify a parent activity in AndroidManifest.xml.
                                                          47
                                                                            int id = item.getItemId();
                                                          48
                                                                            //noinspection SimplifiableIfStatement
                                                          49
1
                                                                            if (id == R.id.action settings) {
                                                        Database Inspector
            ™ Terminal
                      Suild ≡ 6: Logcat O Profiler
                                                                           ▶ 4: Run
                                                                                                                                                            ☐ Event Log ☐ Layout Inspector
☐ Success: Operation succeeded (6 minutes ago)
                                                                                                                                                              1:1 CRLF UTF-8 4 spaces 🔓 👼
```

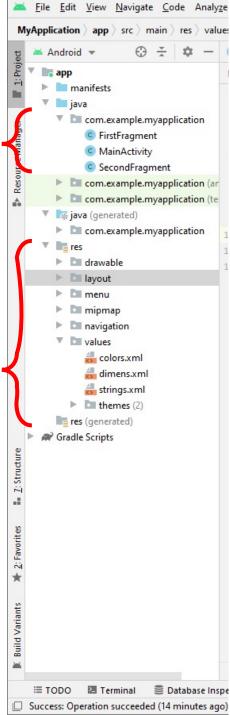


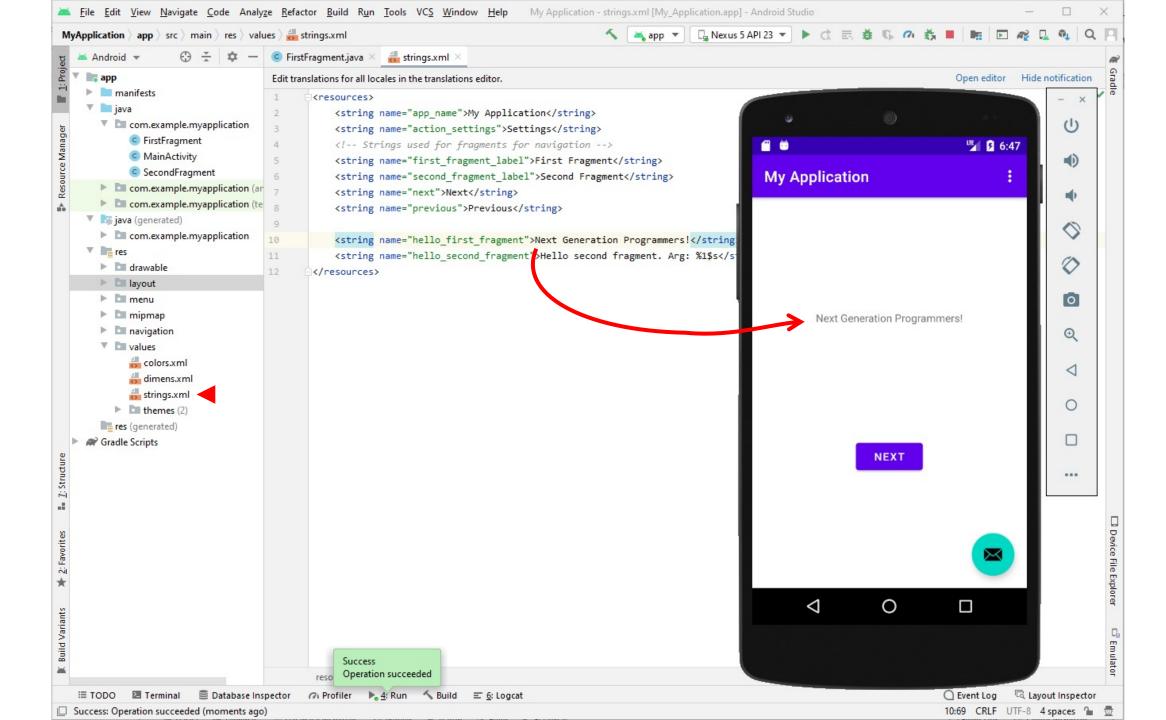


## Task 2: Let's edit the text!

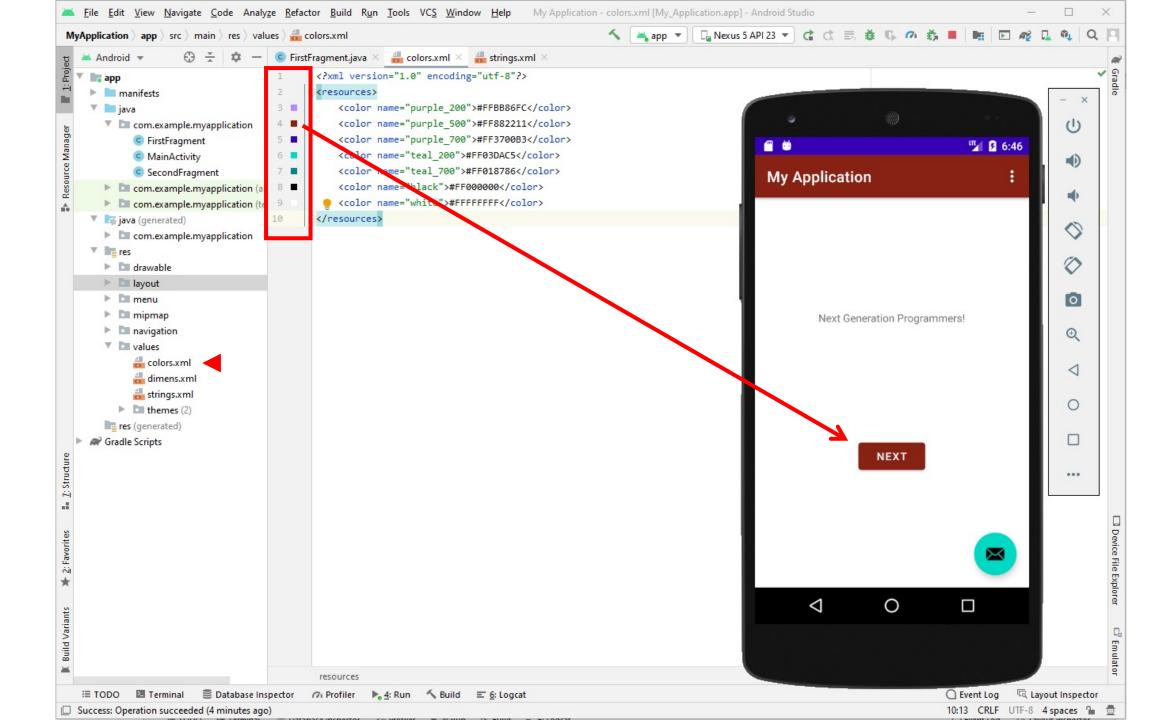
Change the text to anything you want, for example: "My name is X and I am a Next Generation Programmer."





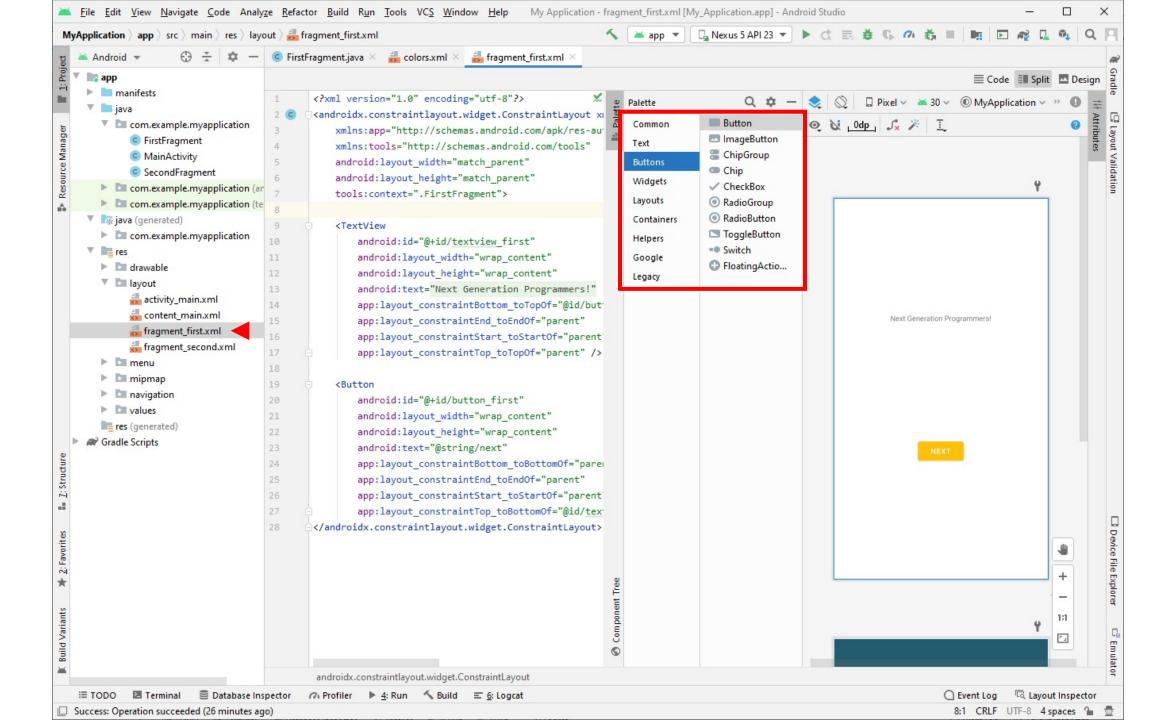


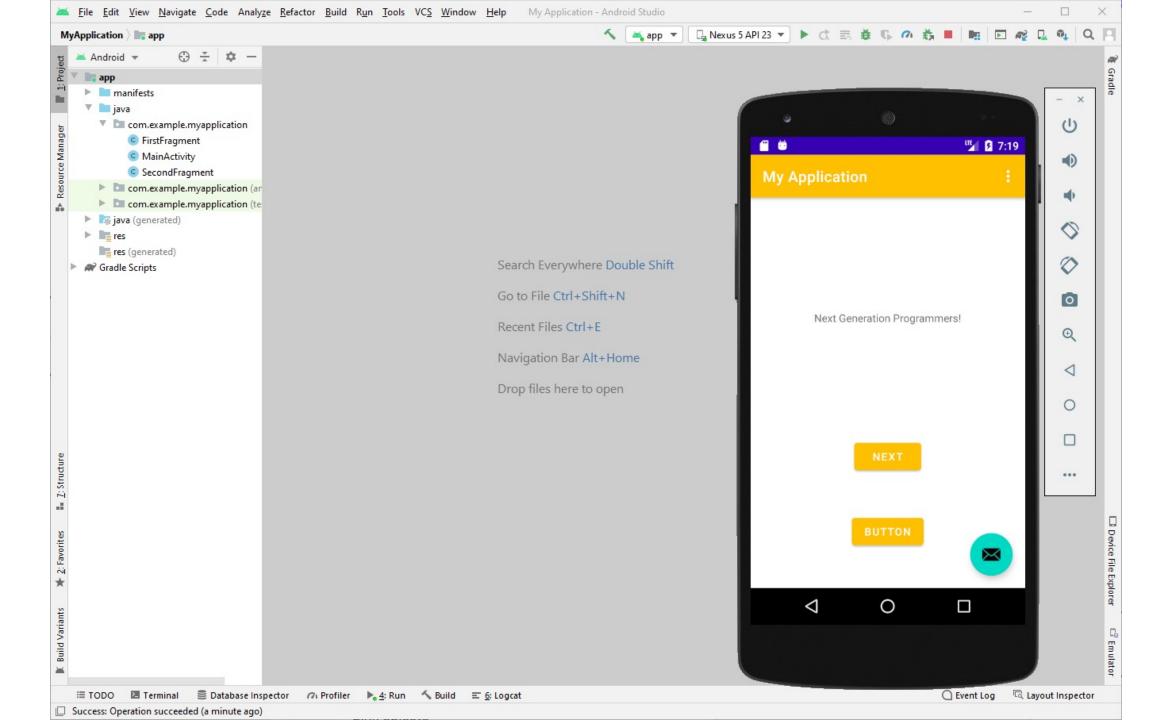
Task 3: Let's edit the colour!



Bonus task: Let's add another button

Add a button





## Common glossary











TEST





DEBUG