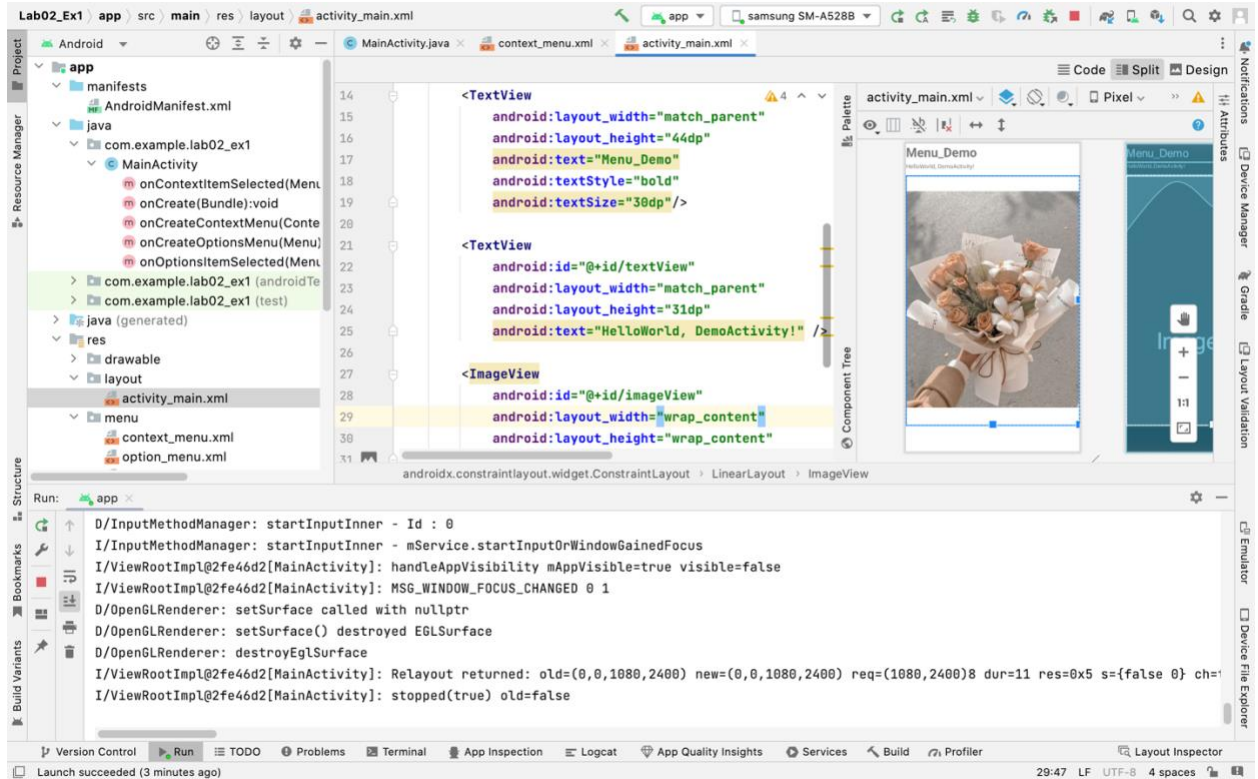**Thực hành :MOBILE APPLICATION**
BUỔI 02
GV: TRẦN VĨNH KHIÊM

HỌ TÊN: LÊ THỊ KIM CHI,MSSV 19521283
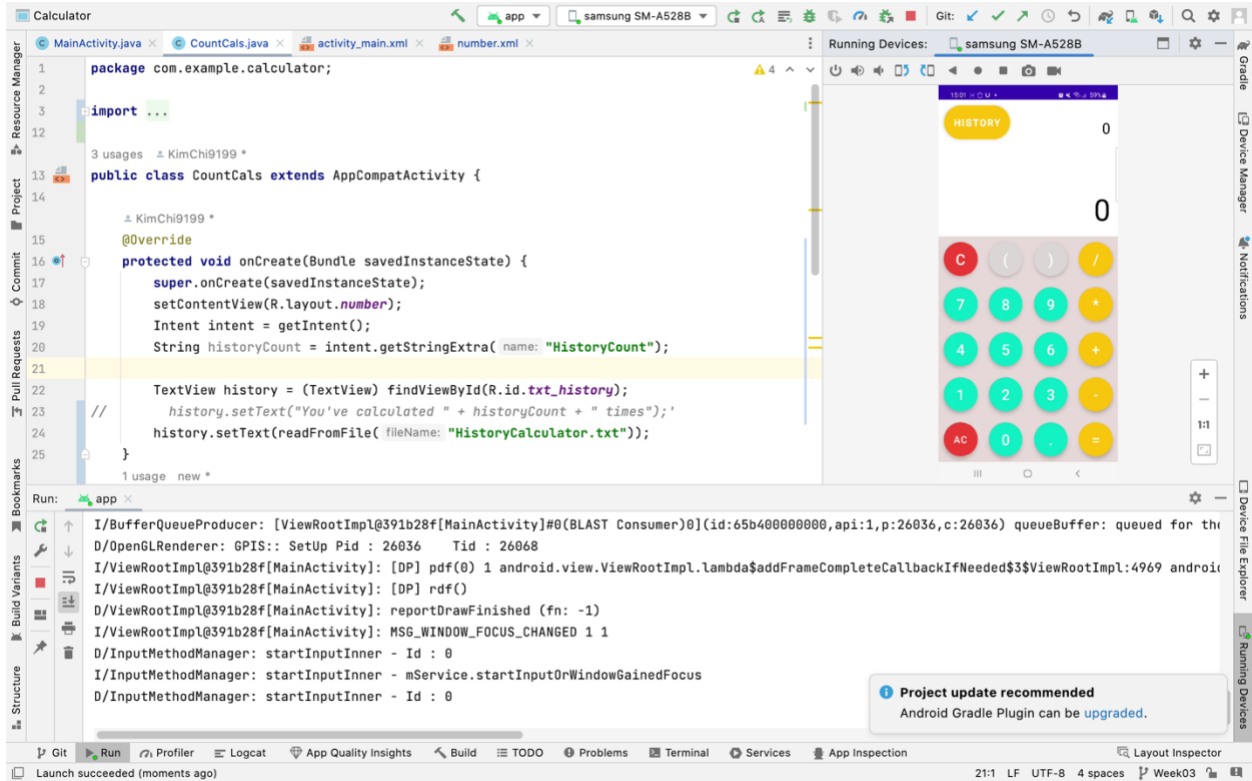LINK GIT: https://github.com/kimchi9199/Mobile_Practice
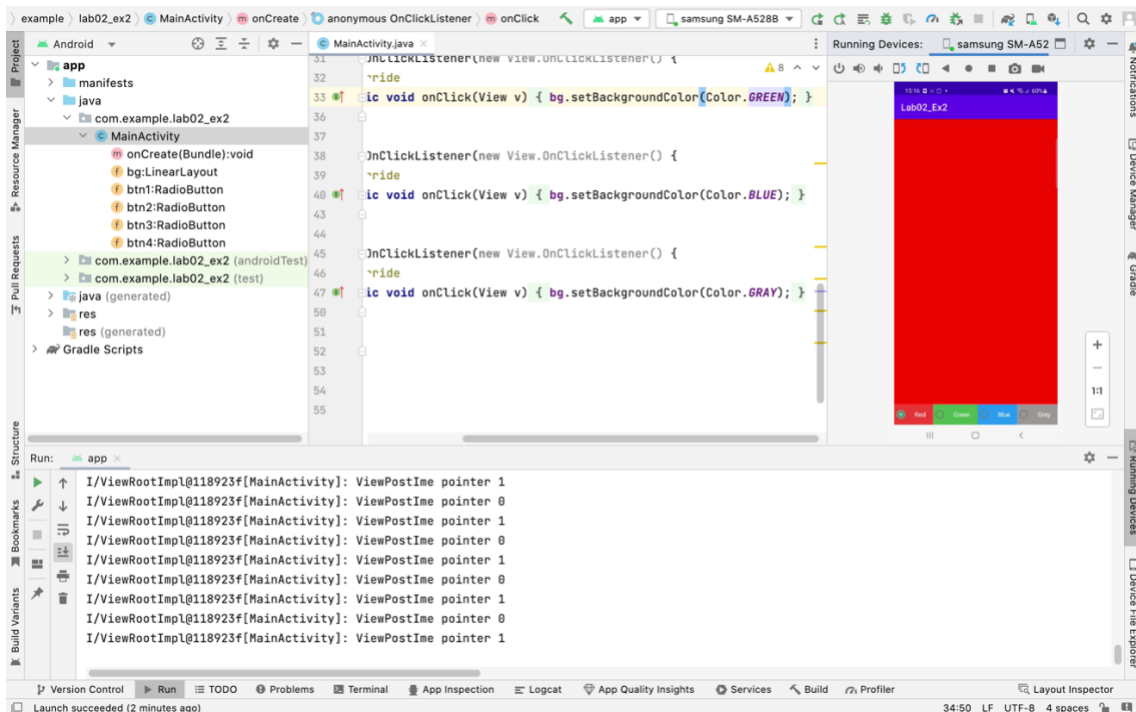(branch lab02)

EXERCISE 01:

app | samsung SM-A528B

Android

- **app**
  - **manifests**
    - AndroidManifest.xml
  - **java**
    - com.example.lab02_ex1
      - © MainActivity
        - m onContextItemSelected(Menu
        - m onCreate(Bundle):void
        - m onCreateContextMenu(Conte
        - m onCreateOptionsMenu(Menu)
        - m onOptionsItemSelected(Menu
    - com.example.lab02_ex1 (androidTe
    - com.example.lab02_ex1 (test)
    - java (generated)
  - **res**
    - drawable
    - layout
      - activity_main.xml
    - menu
      - context_menu.xml
      - option_menu.xml

MainActivity.java | context_menu.xml | activity_main.xml

Code | Split | Design

```
14      <TextView                                    ⚠4 ^ ∨
15          android:layout_width="match_parent"
16          android:layout_height="44dp"
17          android:text="Menu_Demo"
18          android:textStyle="bold"
19          android:textSize="30dp"/>
20
21      <TextView
22          android:id="@+id/textView"
23          android:layout_width="match_parent"
24          android:layout_height="31dp"
25          android:text="HelloWorld, DemoActivity!" />
26
27      <ImageView
28          android:id="@+id/imageView"
29          android:layout_width="wrap_content"
30          android:layout_height="wrap_content"
31
```

activity_main.xml | Pixel

Menu_Demo
HelloWorld, DemoActivity!

Menu_Demo

Image

androidx.constraintlayout.widget.ConstraintLayout › LinearLayout › ImageView

Run: 🐱 app

```
D/InputMethodManager: startInputInner - Id : 0
I/InputMethodManager: startInputInner - mService.startInputOrWindowGainedFocus
I/ViewRootImpl@2fe46d2[MainActivity]: handleAppVisibility mAppVisible=true visible=false
I/ViewRootImpl@2fe46d2[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 0 1
D/OpenGLRenderer: setSurface called with nullptr
D/OpenGLRenderer: setSurface() destroyed EGLSurface
D/OpenGLRenderer: destroyEglSurface
I/ViewRootImpl@2fe46d2[MainActivity]: Relayout returned: old=(0,0,1080,2400) new=(0,0,1080,2400) req=(1080,2400)8 dur=11 res=0x5 s={false 0} ch=1
I/ViewRootImpl@2fe46d2[MainActivity]: stopped(true) old=false
```

Version Control | Run | TODO | Problems | Terminal | App Inspection | Logcat | App Quality Insights | Services | Build | Profiler | Layout Inspector

EXERCISE 3:


```java
package com.example.calculator;

import ...

3 usages    KimChi9199 *
public class CountCals extends AppCompatActivity {

        KimChi9199 *
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.number);
        Intent intent = getIntent();
        String historyCount = intent.getStringExtra( name: "HistoryCount");

        TextView history = (TextView) findViewById(R.id.txt_history);
//       history.setText("You've calculated " + historyCount + " times");'
        history.setText(readFromFile( fileName: "HistoryCalculator.txt"));
    }
    1 usage  new *
}
```

```
I/BufferQueueProducer: [ViewRootImpl@391b28f[MainActivity]#0(BLAST Consumer)0](id:65b400000000,api:1,p:26036,c:26036) queueBuffer: queued for th
D/OpenGLRenderer: GPIS:: SetUp Pid : 26036    Tid : 26068
I/ViewRootImpl@391b28f[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallbackIfNeeded$3$ViewRootImpl:4969 androi
I/ViewRootImpl@391b28f[MainActivity]: [DP] rdf()
D/ViewRootImpl@391b28f[MainActivity]: reportDrawFinished (fn: -1)
I/ViewRootImpl@391b28f[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 1 1
D/InputMethodManager: startInputInner - Id : 0
I/InputMethodManager: startInputInner - mService.startInputOrWindowGainedFocus
D/InputMethodManager: startInputInner - Id : 0
```

Project update recommended
Android Gradle Plugin can be upgraded.

Exercise 2:


```java
                OnClickListener(new View.OnClickListener() {
        ‾ride
    ic void onClick(View v) { bg.setBackgroundColor(Color.GREEN); }


        OnClickListener(new View.OnClickListener() {
        ‾ride
    ic void onClick(View v) { bg.setBackgroundColor(Color.BLUE); }


        OnClickListener(new View.OnClickListener() {
        ‾ride
    ic void onClick(View v) { bg.setBackgroundColor(Color.GRAY); }
```

```
I/ViewRootImpl@118923f[MainActivity]: ViewPostIme pointer 1
I/ViewRootImpl@118923f[MainActivity]: ViewPostIme pointer 0
I/ViewRootImpl@118923f[MainActivity]: ViewPostIme pointer 1
I/ViewRootImpl@118923f[MainActivity]: ViewPostIme pointer 0
I/ViewRootImpl@118923f[MainActivity]: ViewPostIme pointer 1
I/ViewRootImpl@118923f[MainActivity]: ViewPostIme pointer 0
I/ViewRootImpl@118923f[MainActivity]: ViewPostIme pointer 1
I/ViewRootImpl@118923f[MainActivity]: ViewPostIme pointer 0
I/ViewRootImpl@118923f[MainActivity]: ViewPostIme pointer 1
```
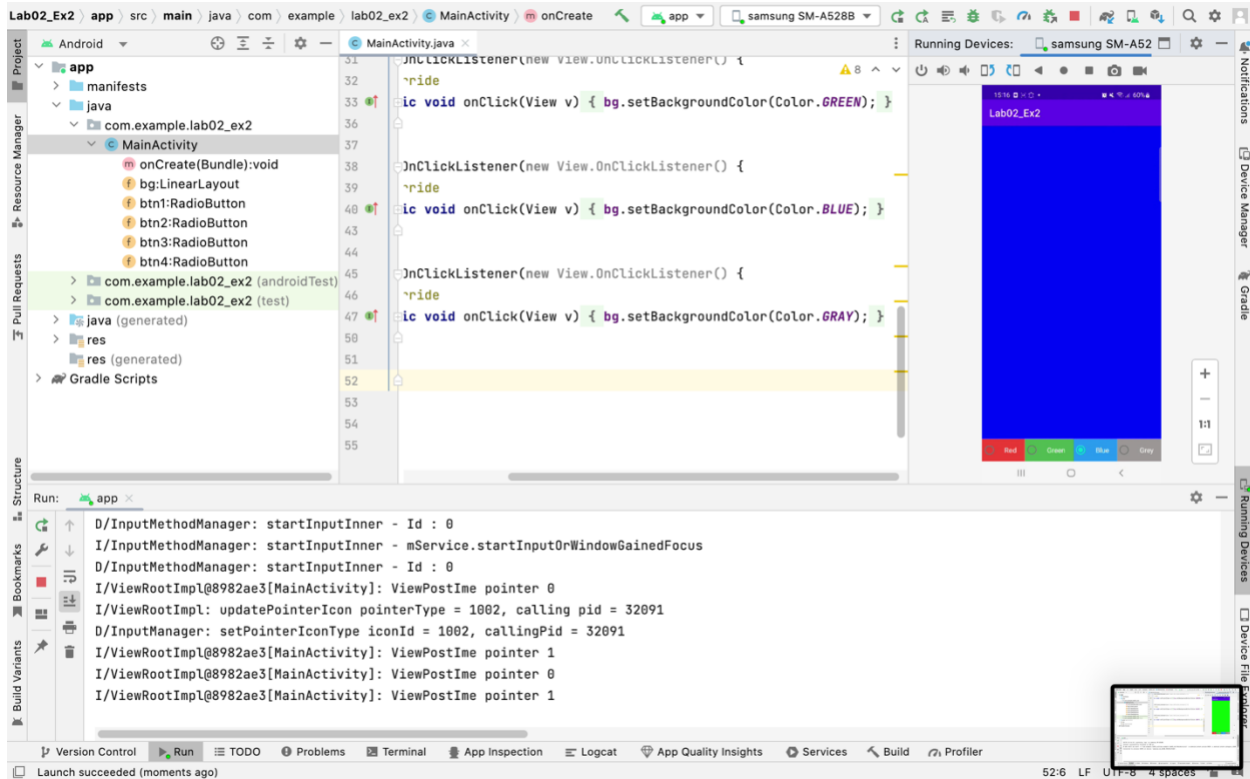
Top screenshot:

Lab02_Ex2 › app › src › main › java › com › example › lab02_ex2 › MainActivity › onCreate — app — samsung SM-A528B

MainActivity.java

```
OnClickListener(new View.OnClickListener() {
    ~ride
    ic void onClick(View v) { bg.setBackgroundColor(Color.GREEN); }

OnClickListener(new View.OnClickListener() {
    ~ride
    ic void onClick(View v) { bg.setBackgroundColor(Color.BLUE); }

OnClickListener(new View.OnClickListener() {
    ~ride
    ic void onClick(View v) { bg.setBackgroundColor(Color.GRAY); }
```

Run: app

```
03/29 15:16:15: Launching 'app' on samsung SM-A528B.
Install successfully finished in 780 ms.
$ adb shell am start -n "com.example.lab02_ex2/com.example.lab02_ex2.MainActivity" -a android.intent.action.MAIN -c android.intent.category.LAUN(
Connected to process 32091 on device 'samsung-sm_a528b-R5CRC12T68H'.
```

Launch succeeded (moments ago)   52:6   LF   UTF-8   4 spaces
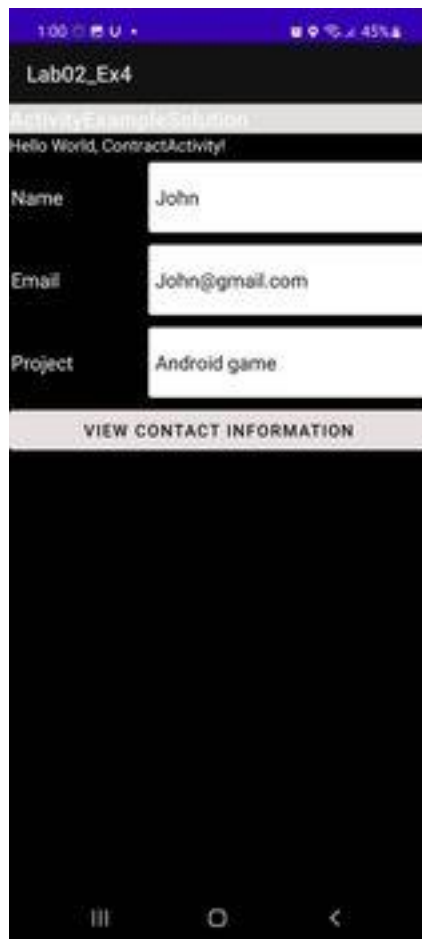
Bottom screenshot:

Run: app

```
D/InputMethodManager: startInputInner - Id : 0
I/ViewRootImpl@8982ae3[MainActivity]: ViewPostIme pointer 0
I/ViewRootImpl: updatePointerIcon pointerType = 1002, calling pid = 32091
D/InputManager: setPointerIconType iconId = 1002, callingPid = 32091
I/ViewRootImpl@8982ae3[MainActivity]: ViewPostIme pointer 1
I/ViewRootImpl@8982ae3[MainActivity]: ViewPostIme pointer 0
I/ViewRootImpl@8982ae3[MainActivity]: ViewPostIme pointer 1
I/ViewRootImpl@8982ae3[MainActivity]: ViewPostIme pointer 0
I/ViewRootImpl@8982ae3[MainActivity]: ViewPostIme pointer 1
```
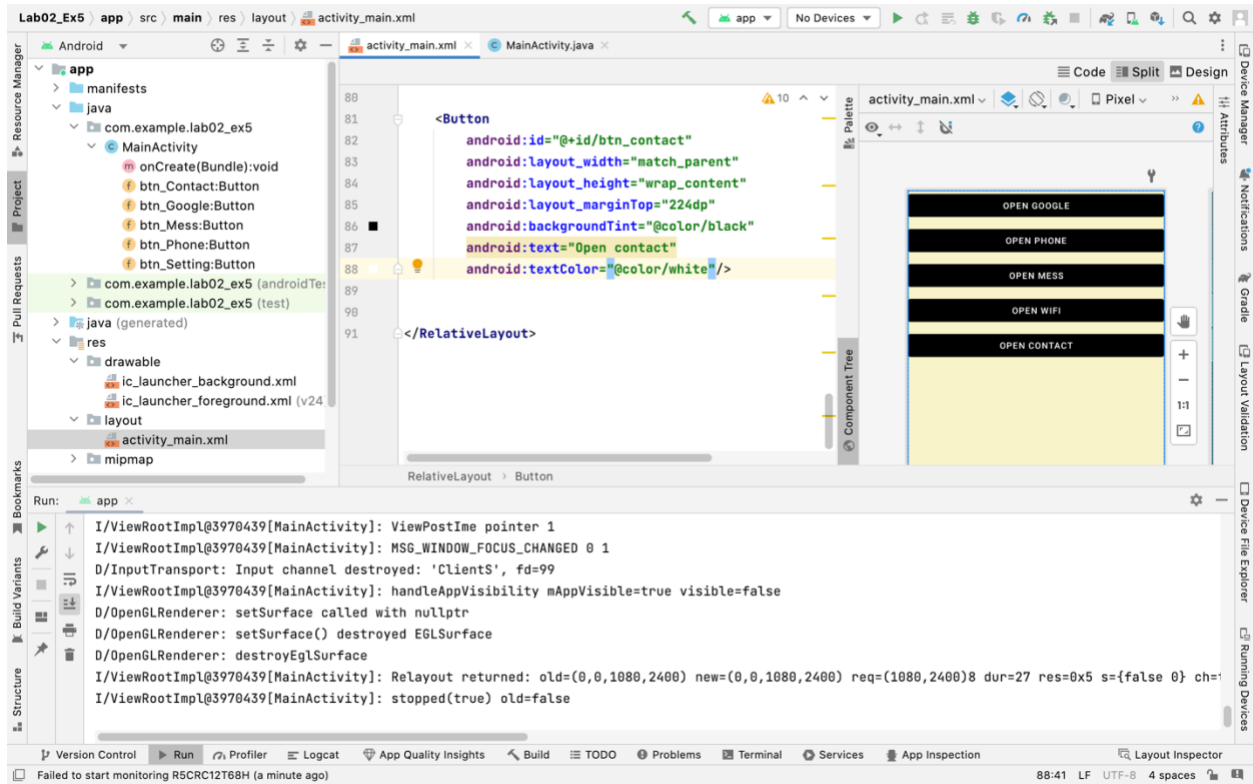
Launch succeeded (moments ago)   52:6   LF   UTF-8   4 spaces

EXERCISE 04:

ActivityExampleSolution

Hello World, ContractActivity!

Name	John
Email	John@gmail.com
Project	Android game

VIEW CONTACT INFORMATION
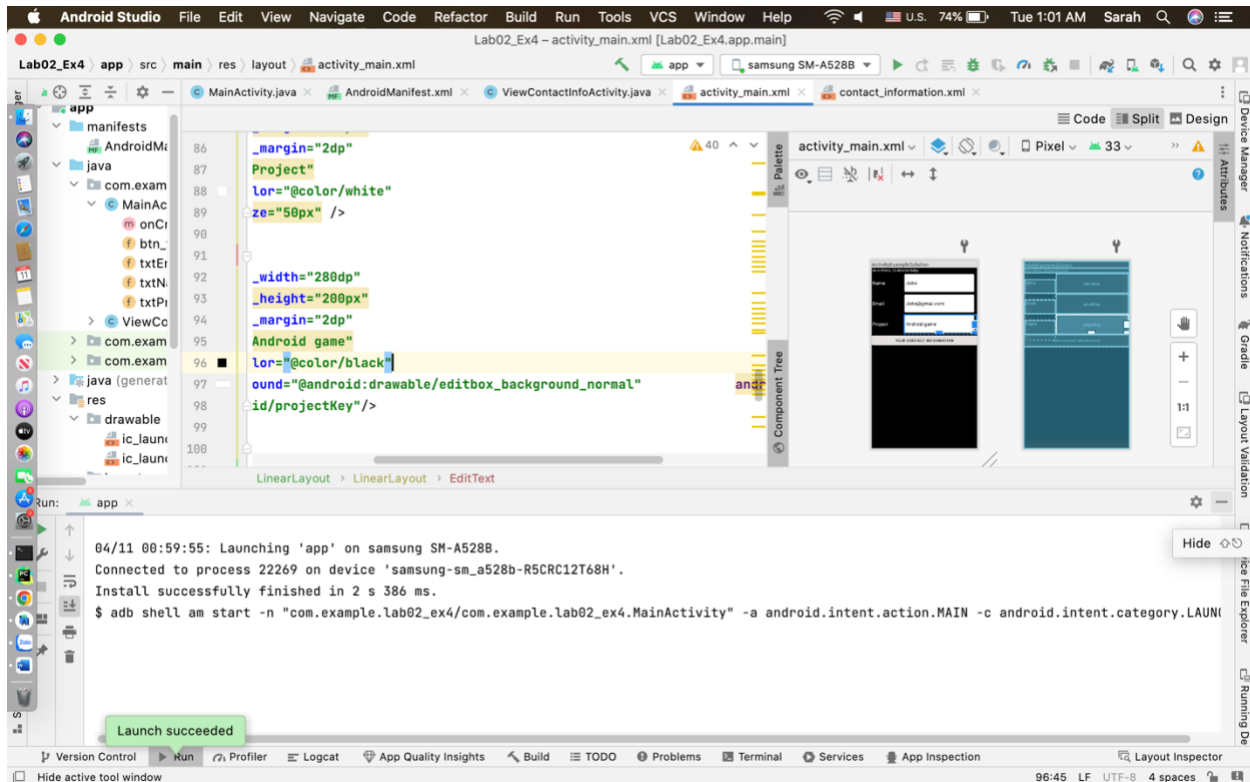
Exercise 5:

Double click to watch video: