# INTRODUCTION TO ANDROID STUDIO

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HUAWEI STUDENT DEVELOPER - UM

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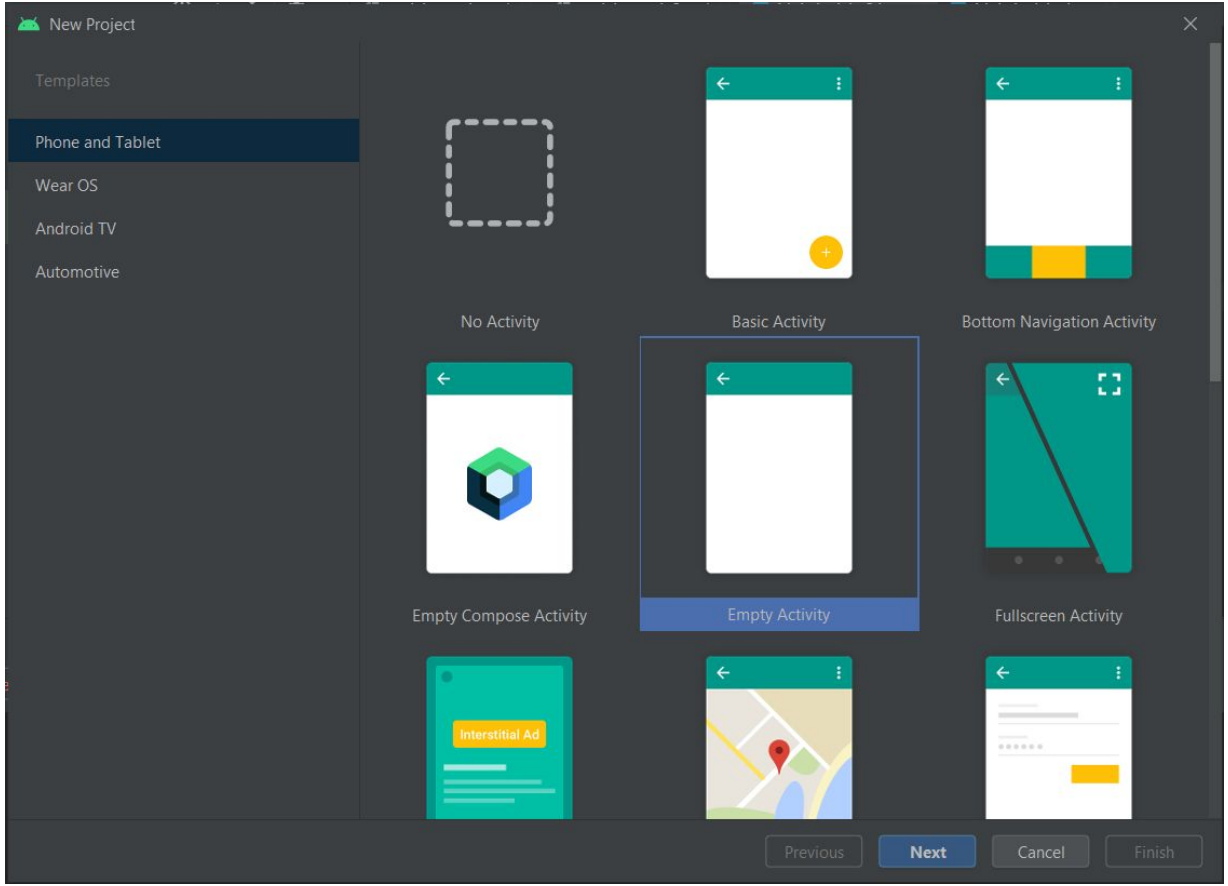
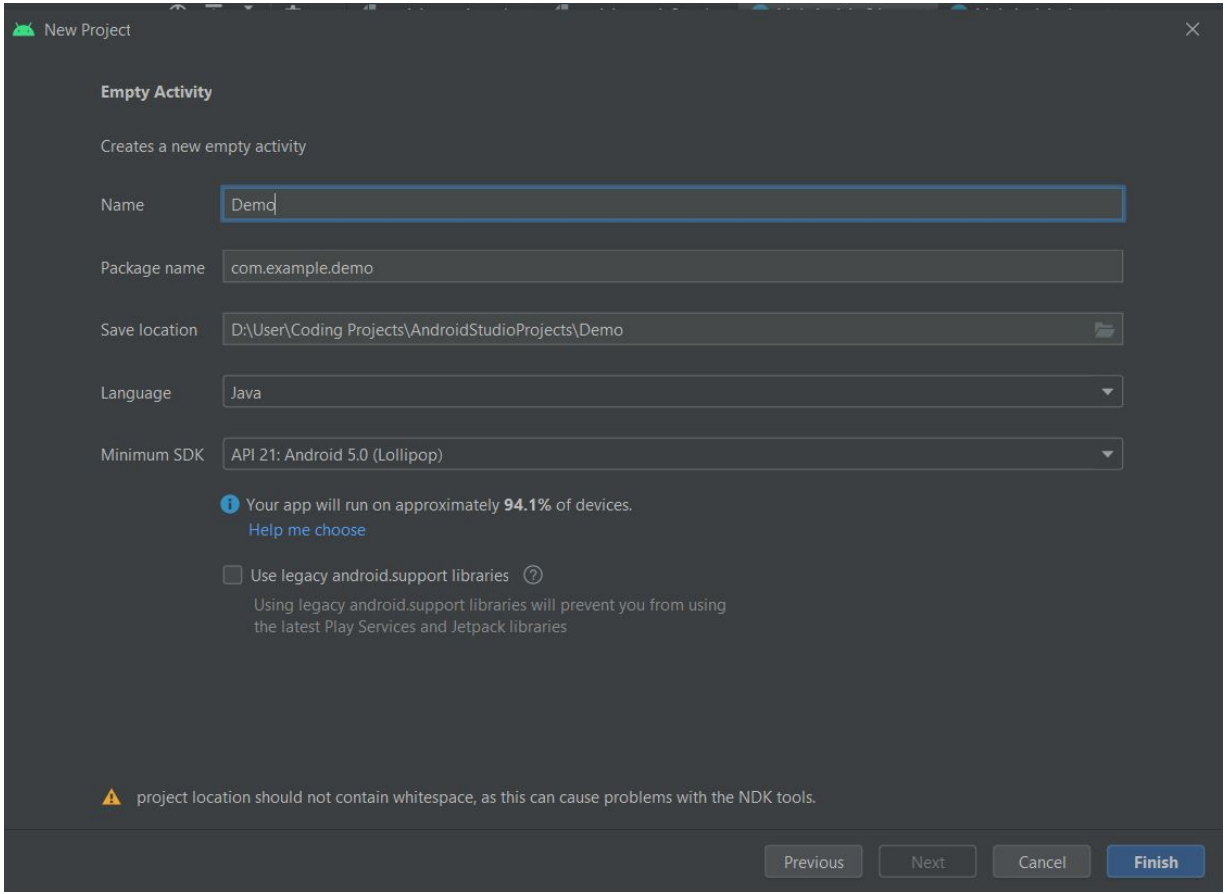
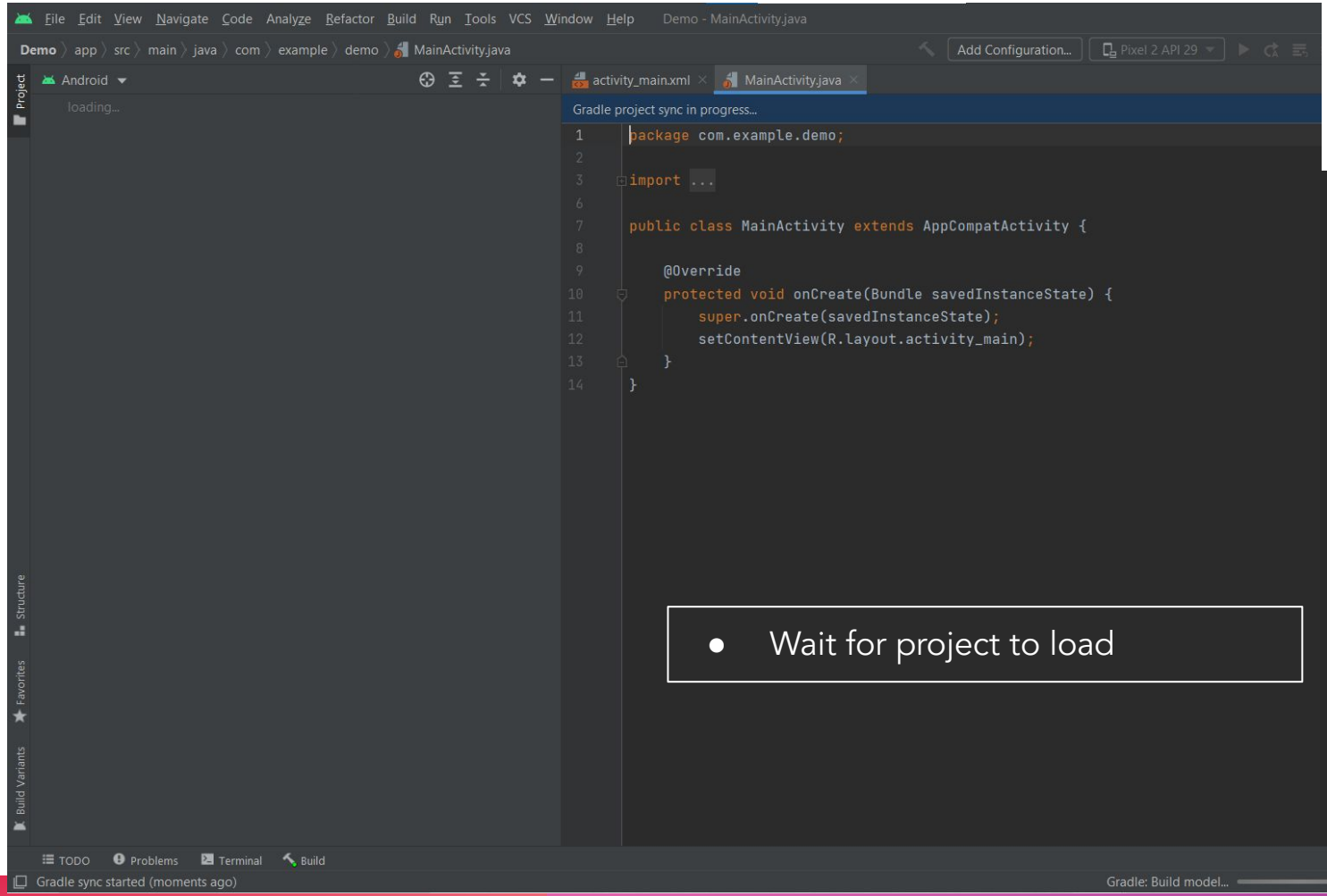



- Create New Project
- Select Phone and Tablet
- Select Empty Activity
- Click Next




- Name the project as “Demo”
- Select Language as Java
- Leave other fields as default.
- Click Finish

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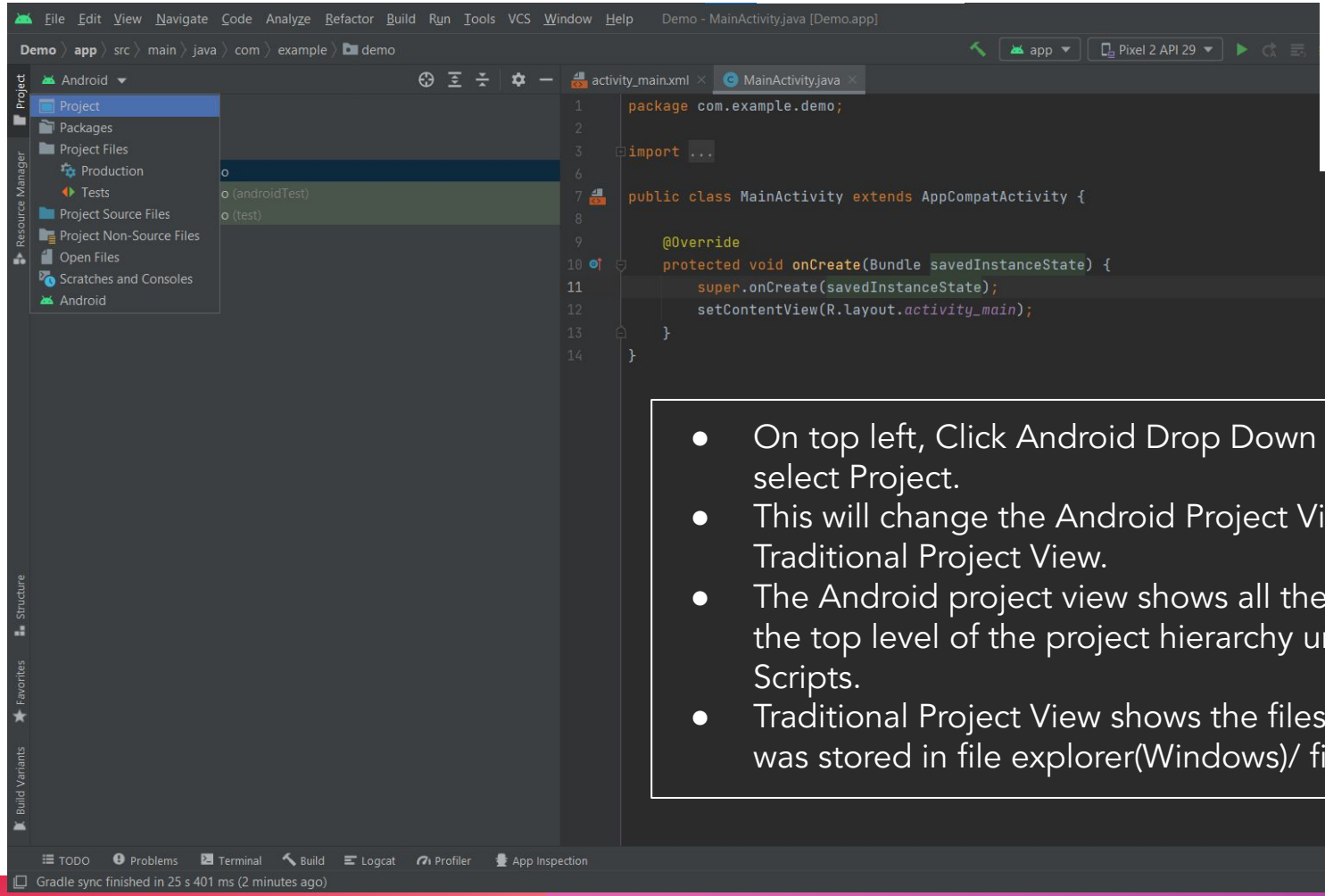
- Wait for project to load

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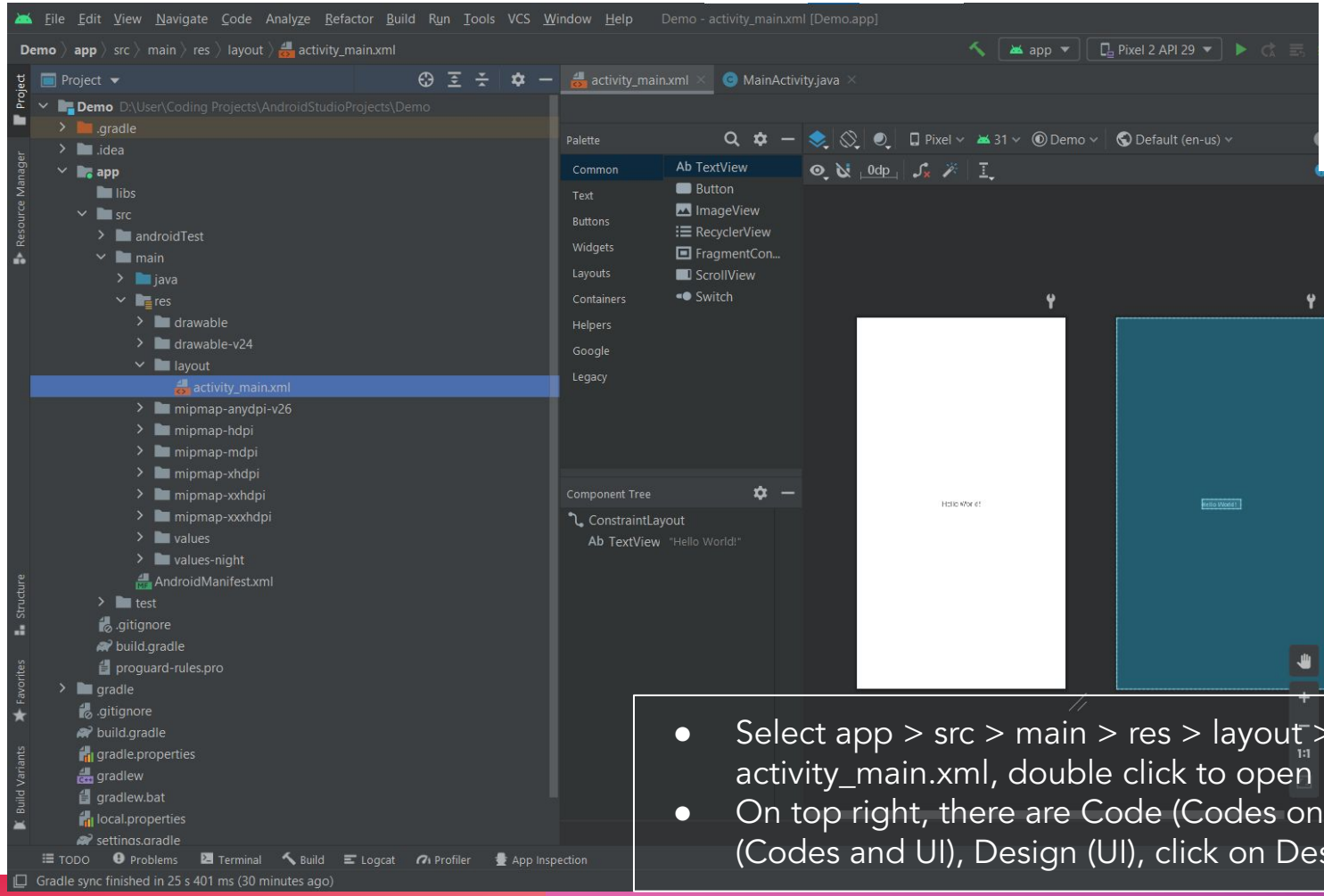
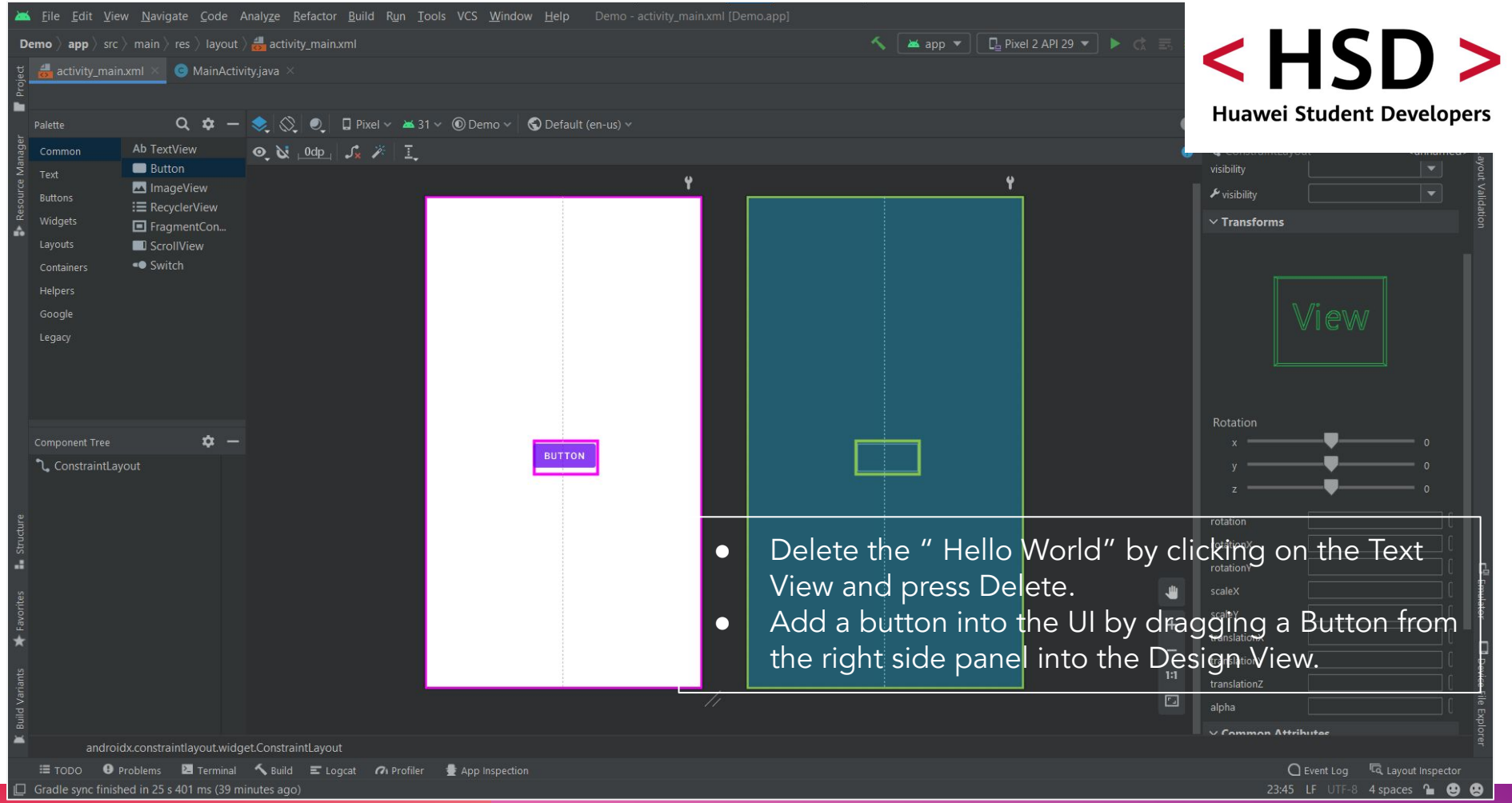
- On top left, Click Android Drop Down Menu and select Project.
- This will change the Android Project View to Traditional Project View.
- The Android project view shows all the build files at the top level of the project hierarchy under Gradle Scripts.
- Traditional Project View shows the files same as how it was stored in file explorer(Windows)/ finder(Mac).



- Select app > src > main > res > layout > activity_main.xml, double click to open it
- On top right, there are Code (Codes only), Split (Codes and UI), Design (UI), click on Design




- Delete the " Hello World" by clicking on the Text View and press Delete.
- Add a button into the UI by dragging a Button from the right side panel into the Design View.

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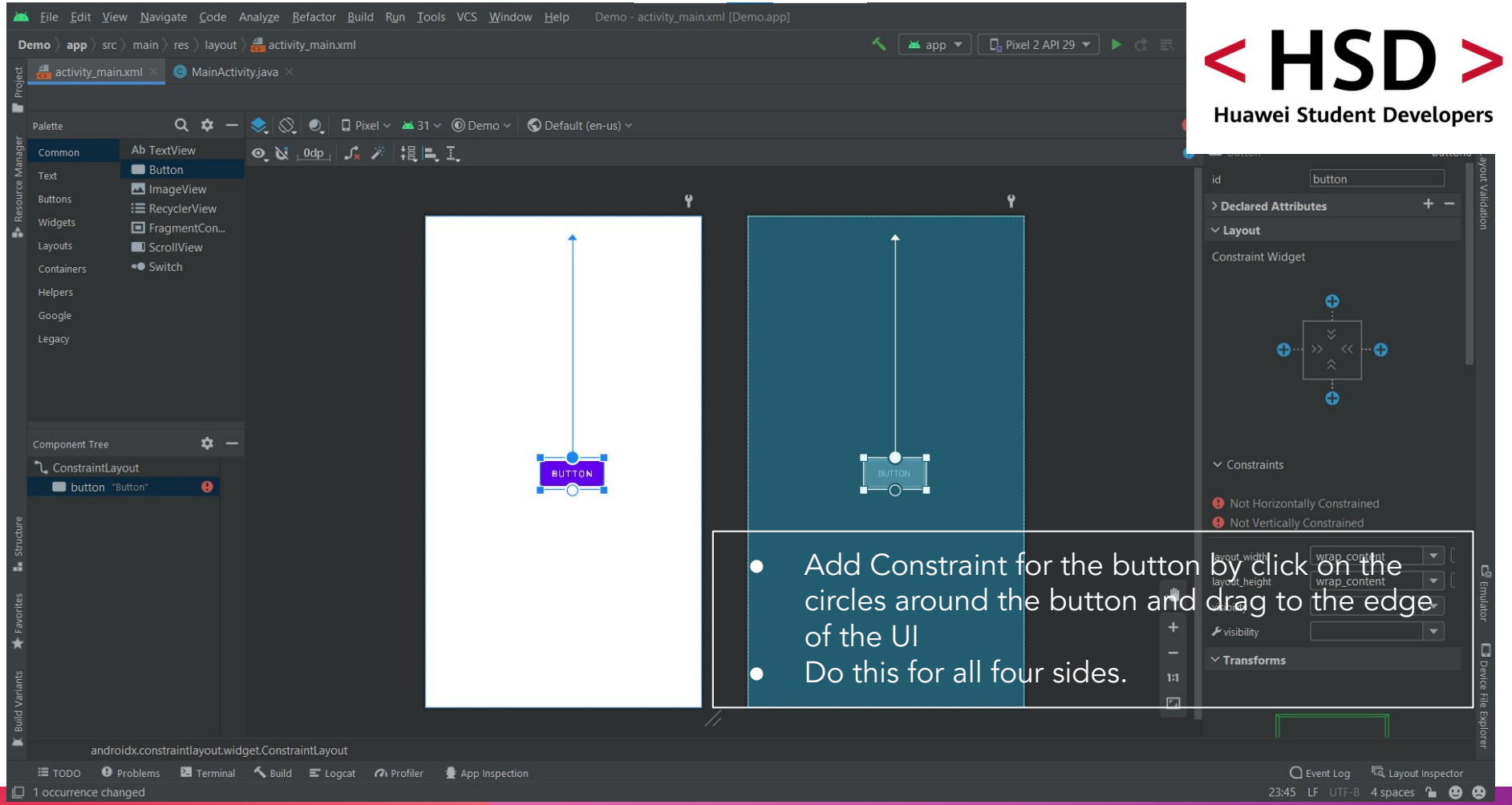


- Add Constraint for the button by click on the circles around the button and drag to the edge of the UI
- Do this for all four sides.

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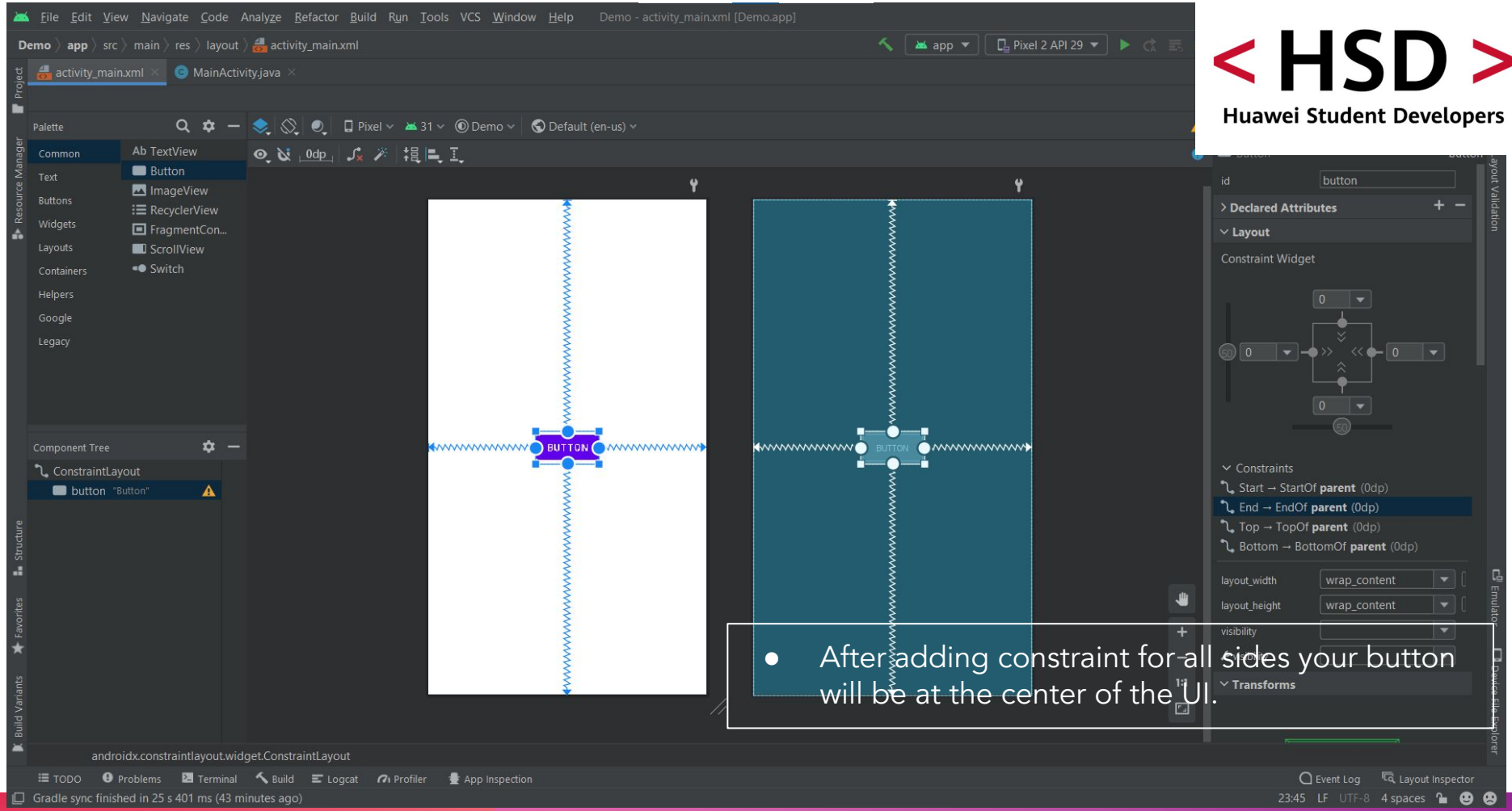


- After adding constraint for all sides your button will be at the center of the UI.

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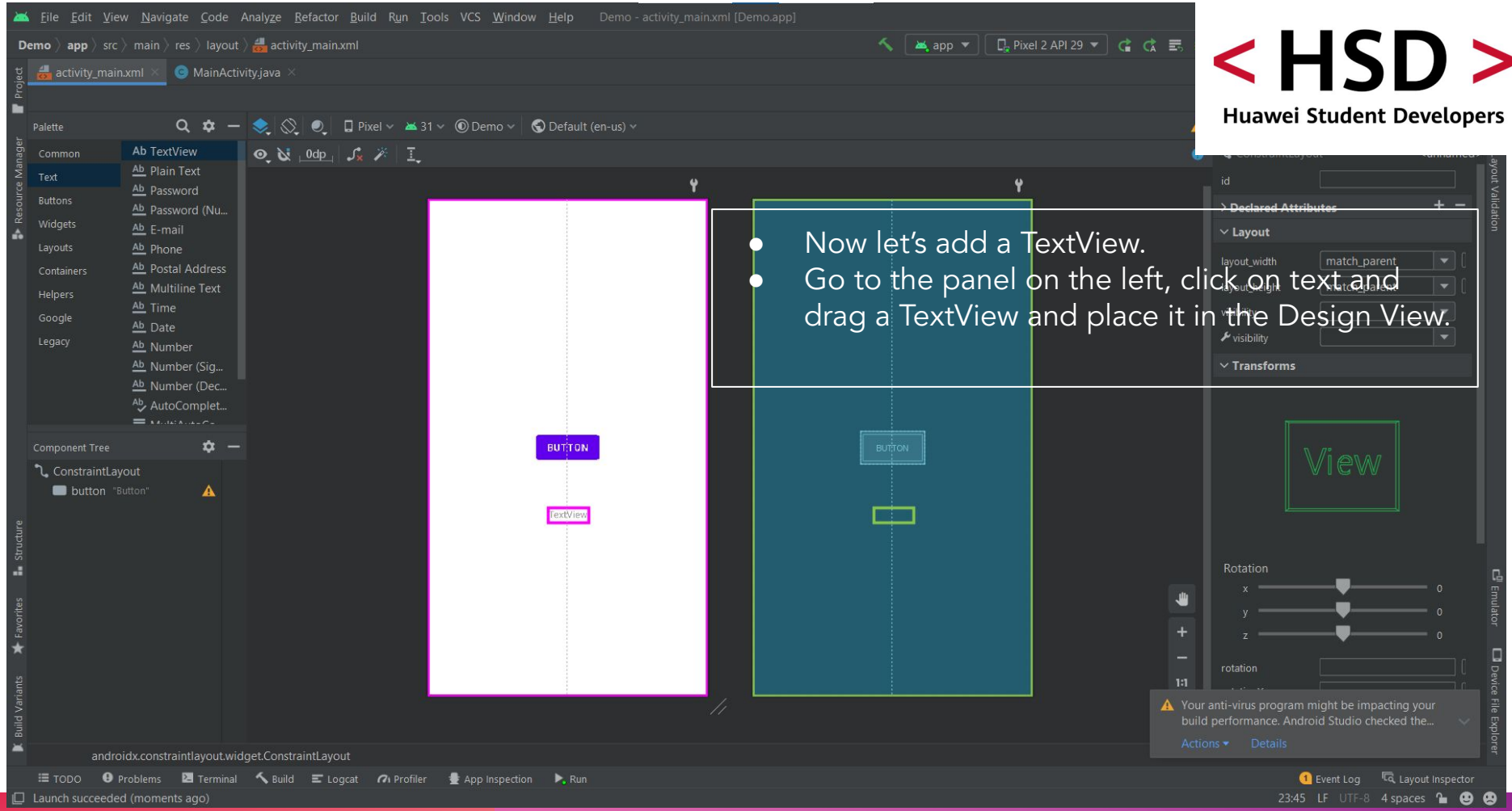


- Now let's add a TextView.
- Go to the panel on the left, click on text and drag a TextView and place it in the Design View.

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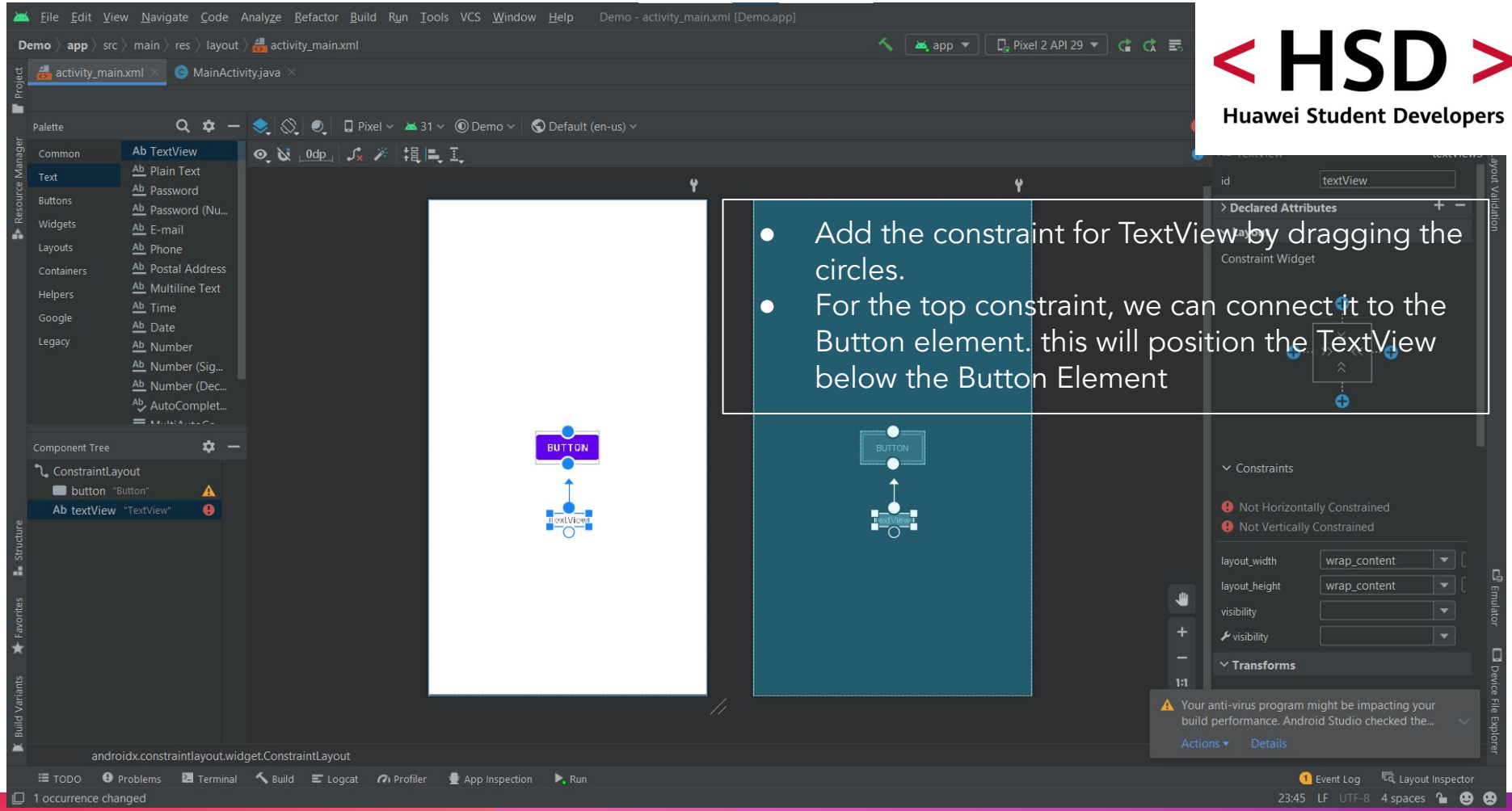


- Add the constraint for TextView by dragging the circles.
- For the top constraint, we can connect it to the Button element. this will position the TextView below the Button Element

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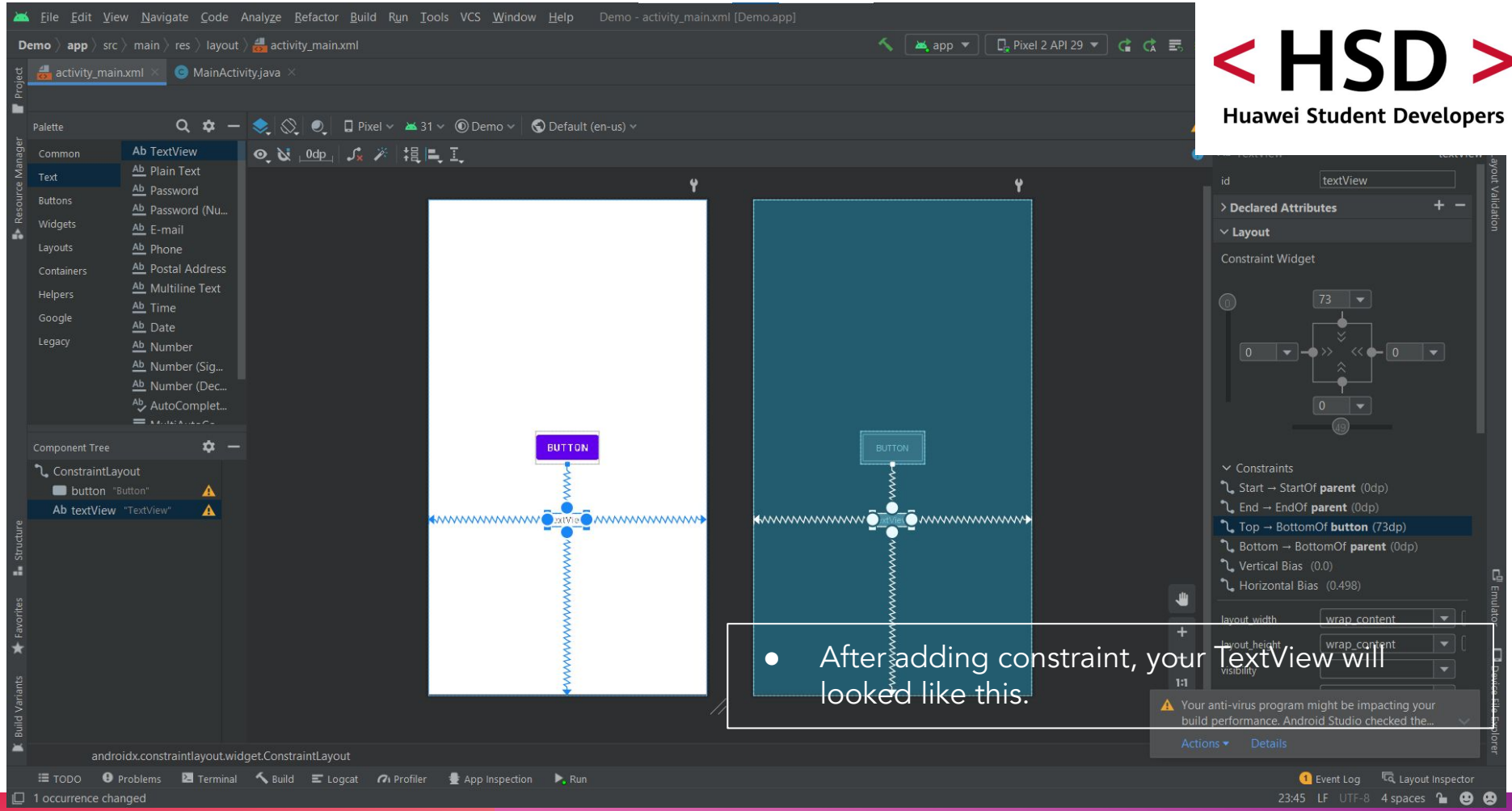


- After adding constraint, your TextView will looked like this.

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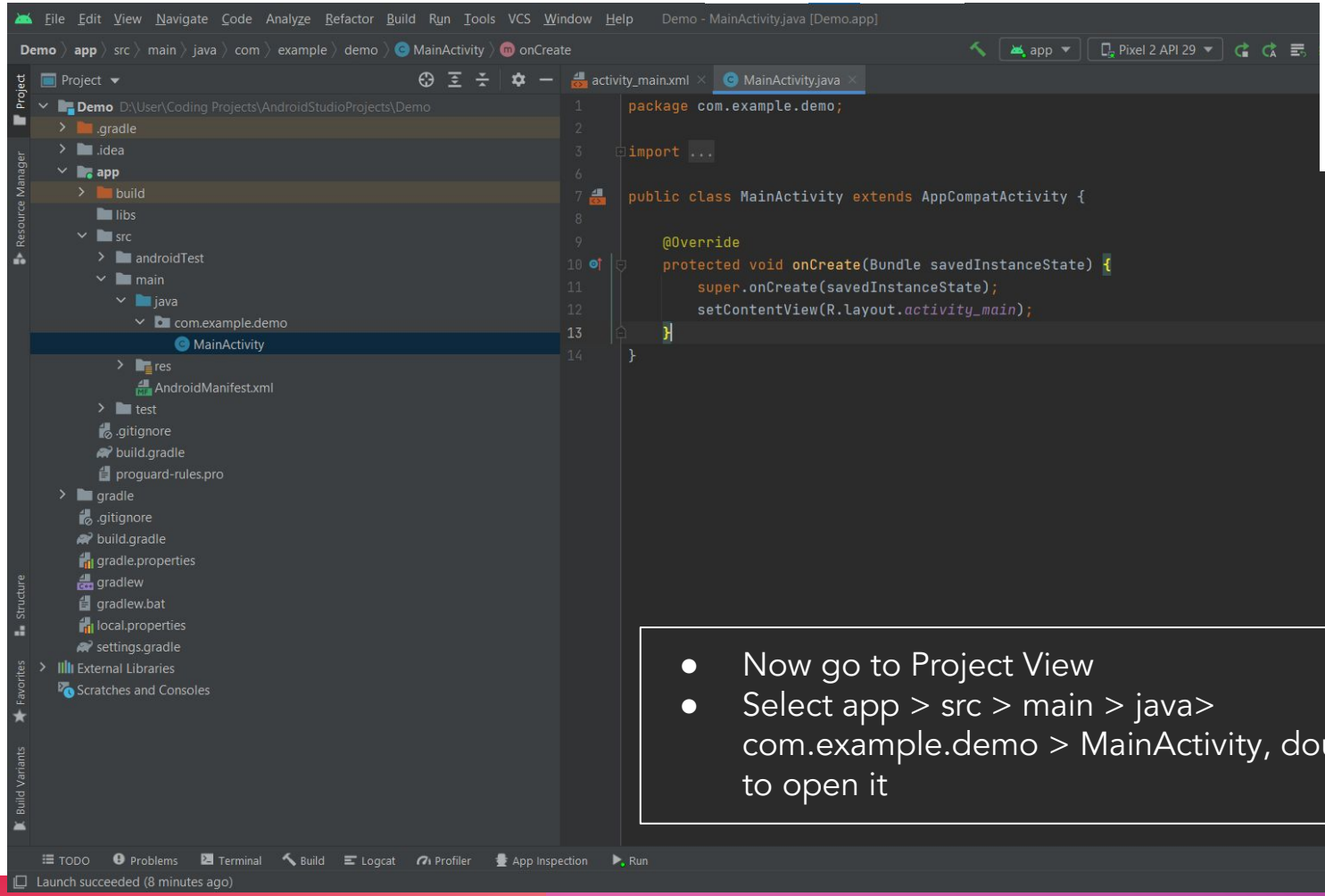


- Now go to Project View
- Select app > src > main > java> com.example.demo > MainActivity, double click to open it

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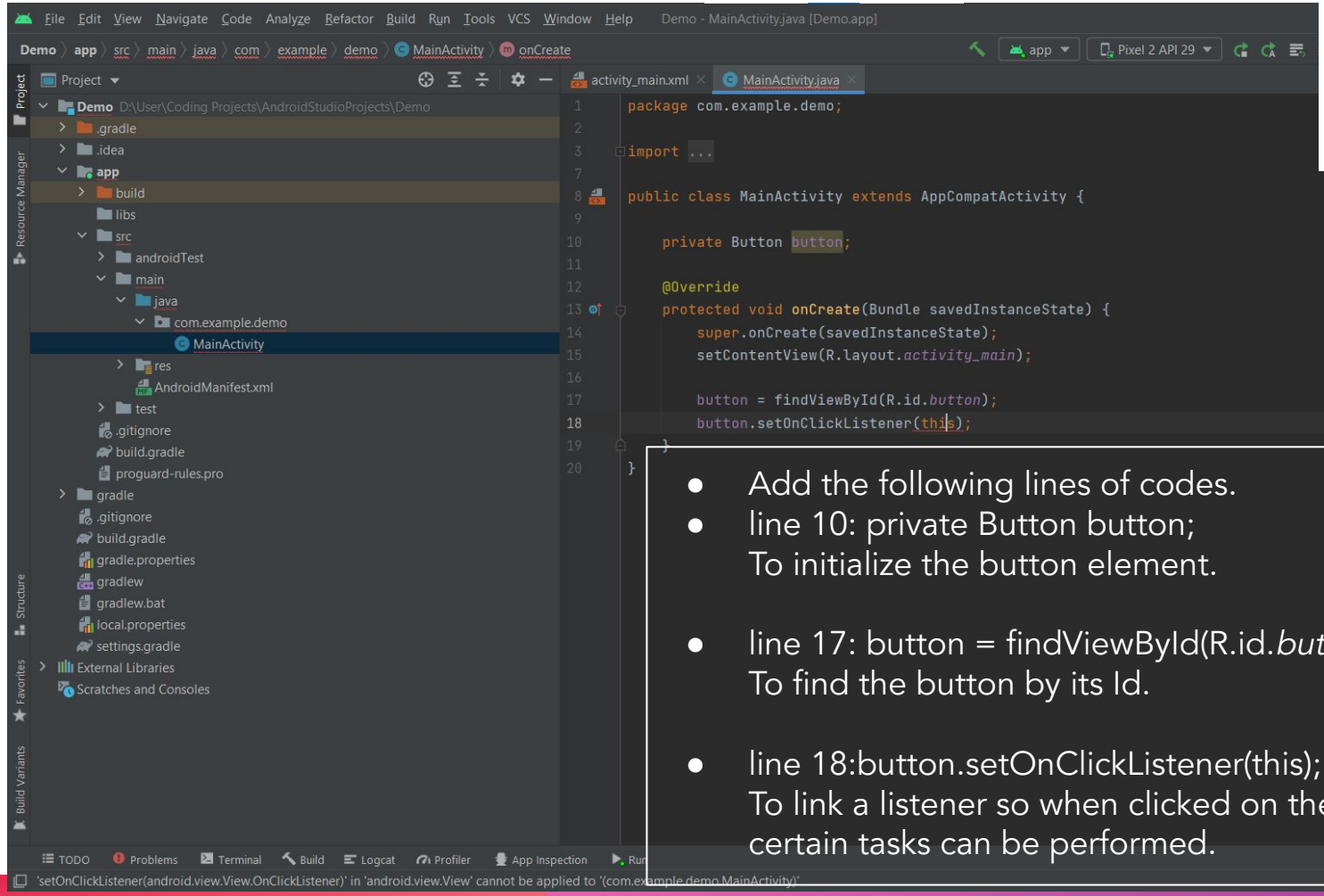


- Add the following lines of codes.
- line 10: private Button button;
  To initialize the button element.

- line 17: button = findViewById(R.id.*button*);
  To find the button by its Id.

- line 18:button.setOnClickListener(this);
  To link a listener so when clicked on the button, certain tasks can be performed.

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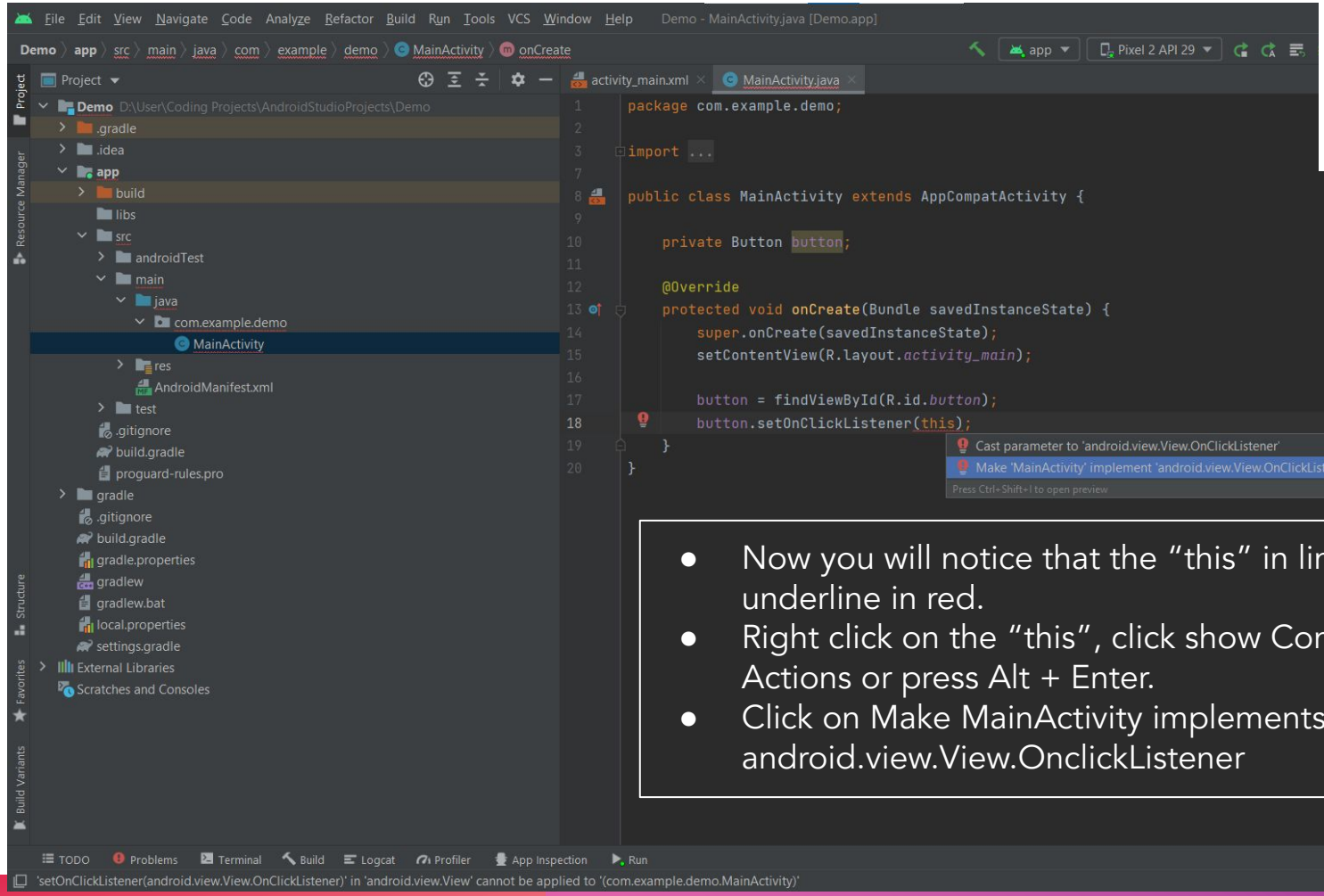


- Now you will notice that the “this” in line 18 is underline in red.
- Right click on the “this”, click show Context Actions or press Alt + Enter.
- Click on Make MainActivity implements android.view.View.OnclickListener

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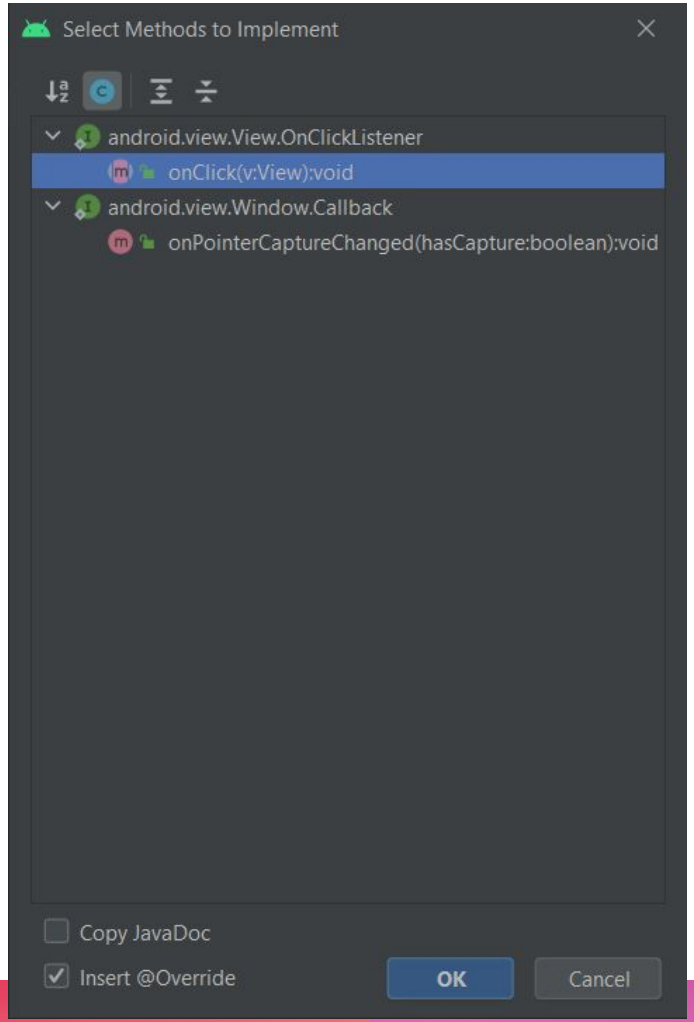
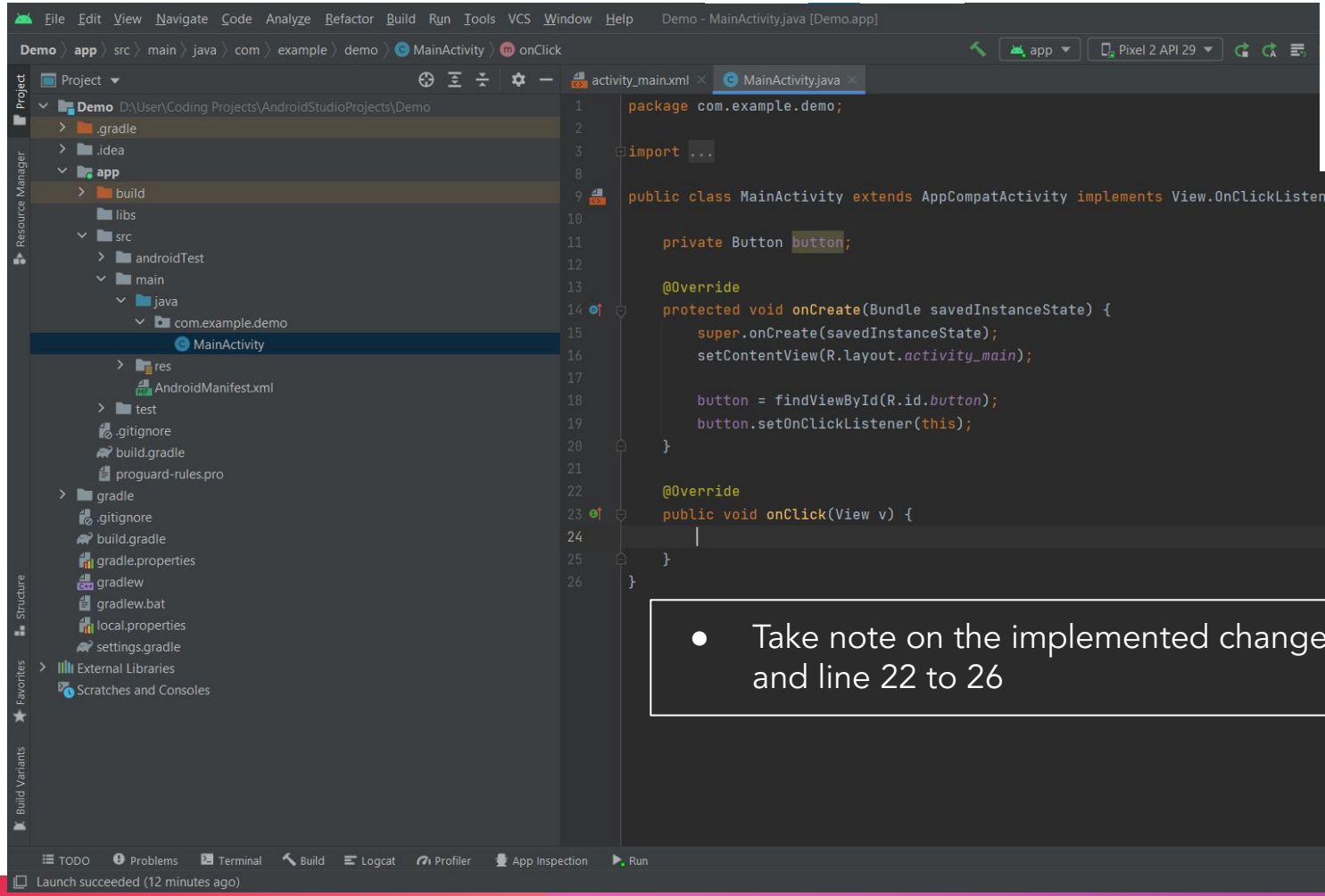



- A pop up will be shown, we'll select the first method.




- Take note on the implemented changes in line 9 and line 22 to 26

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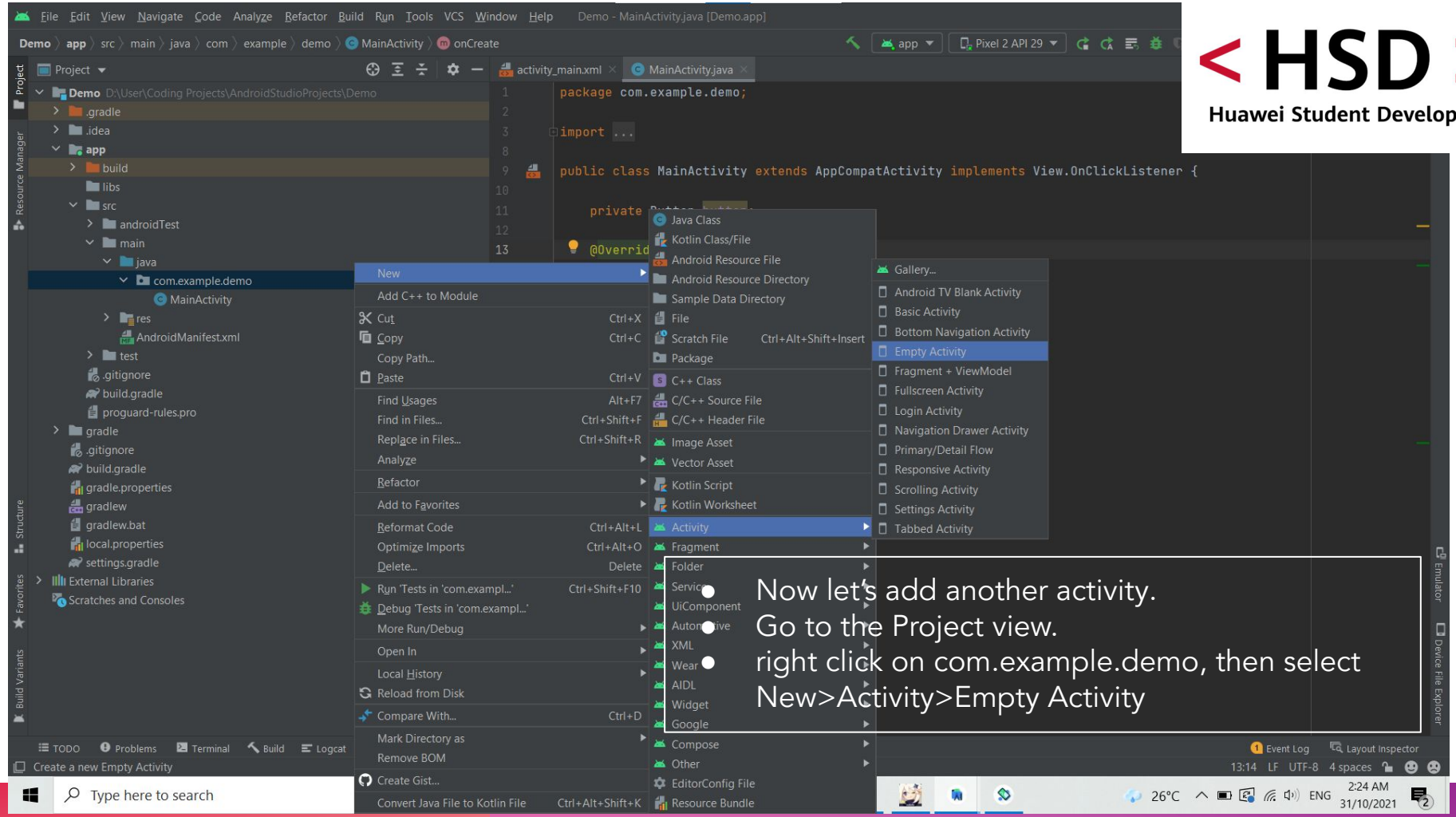


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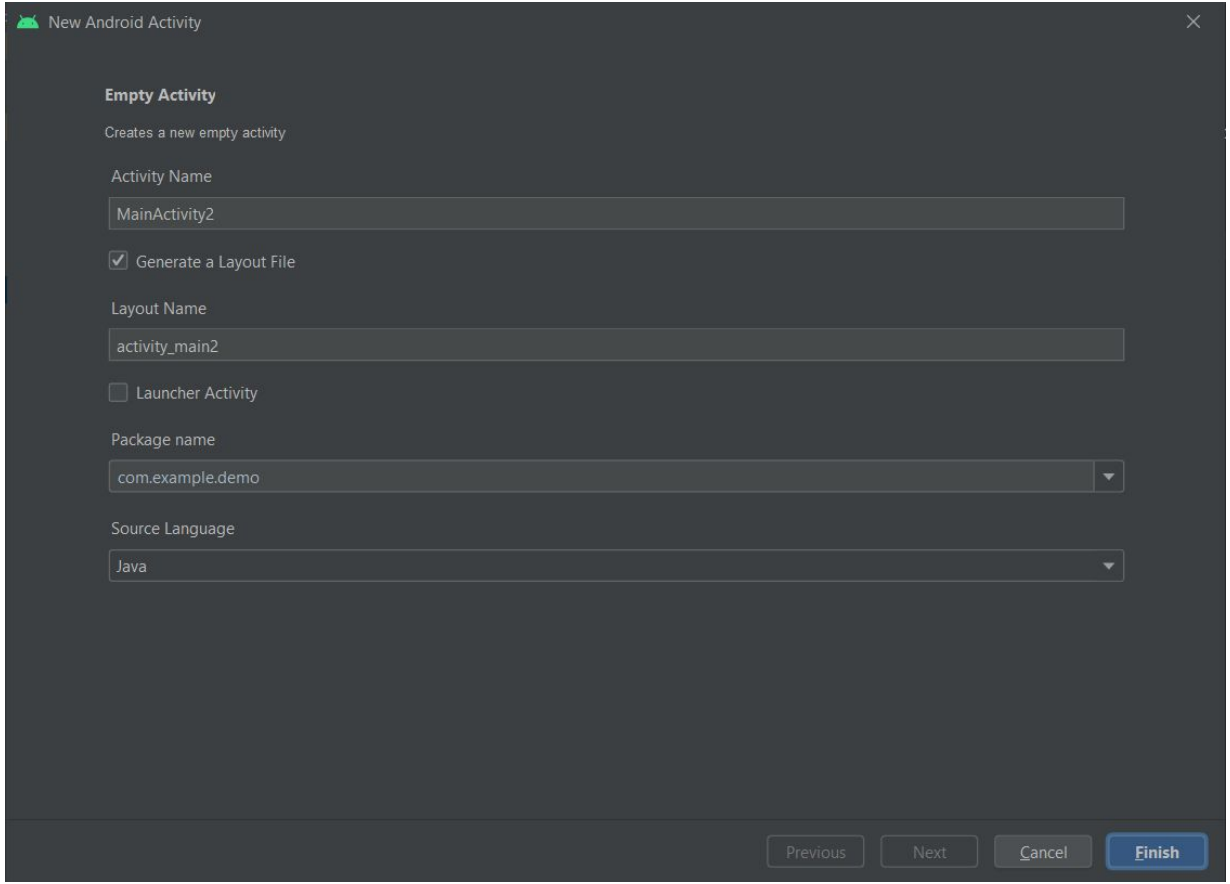
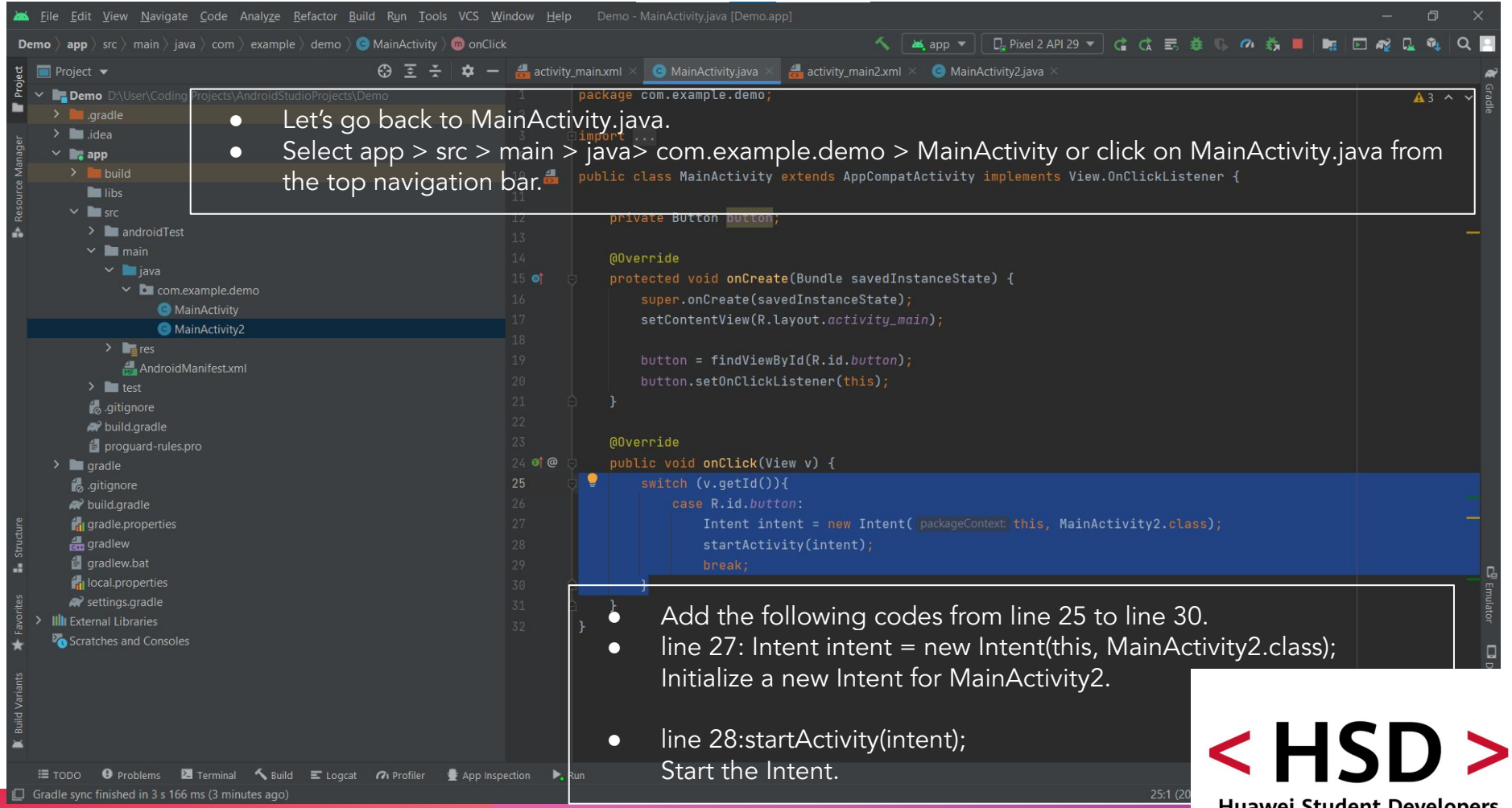



- Leave everything as default and click Finish.

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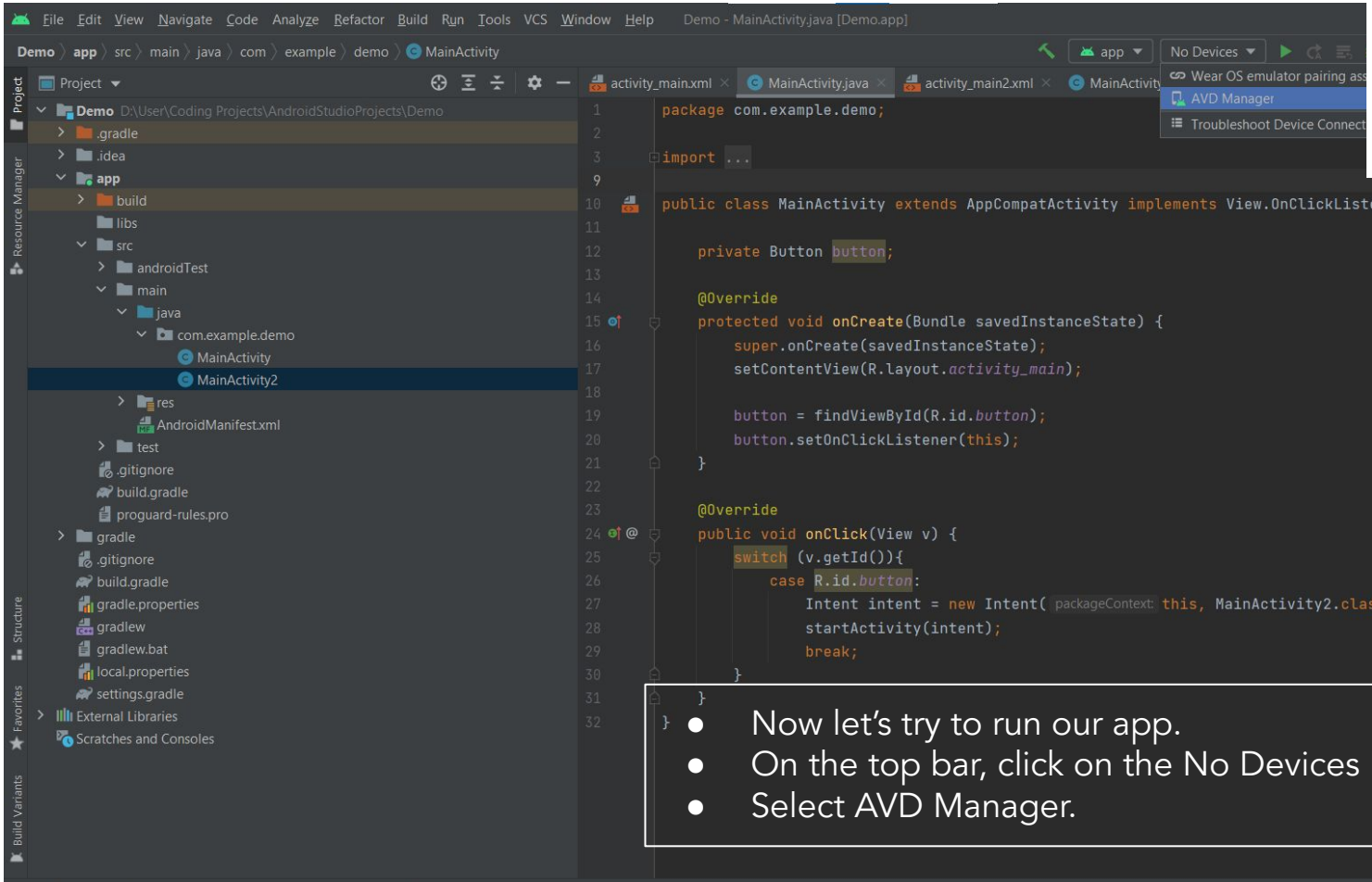


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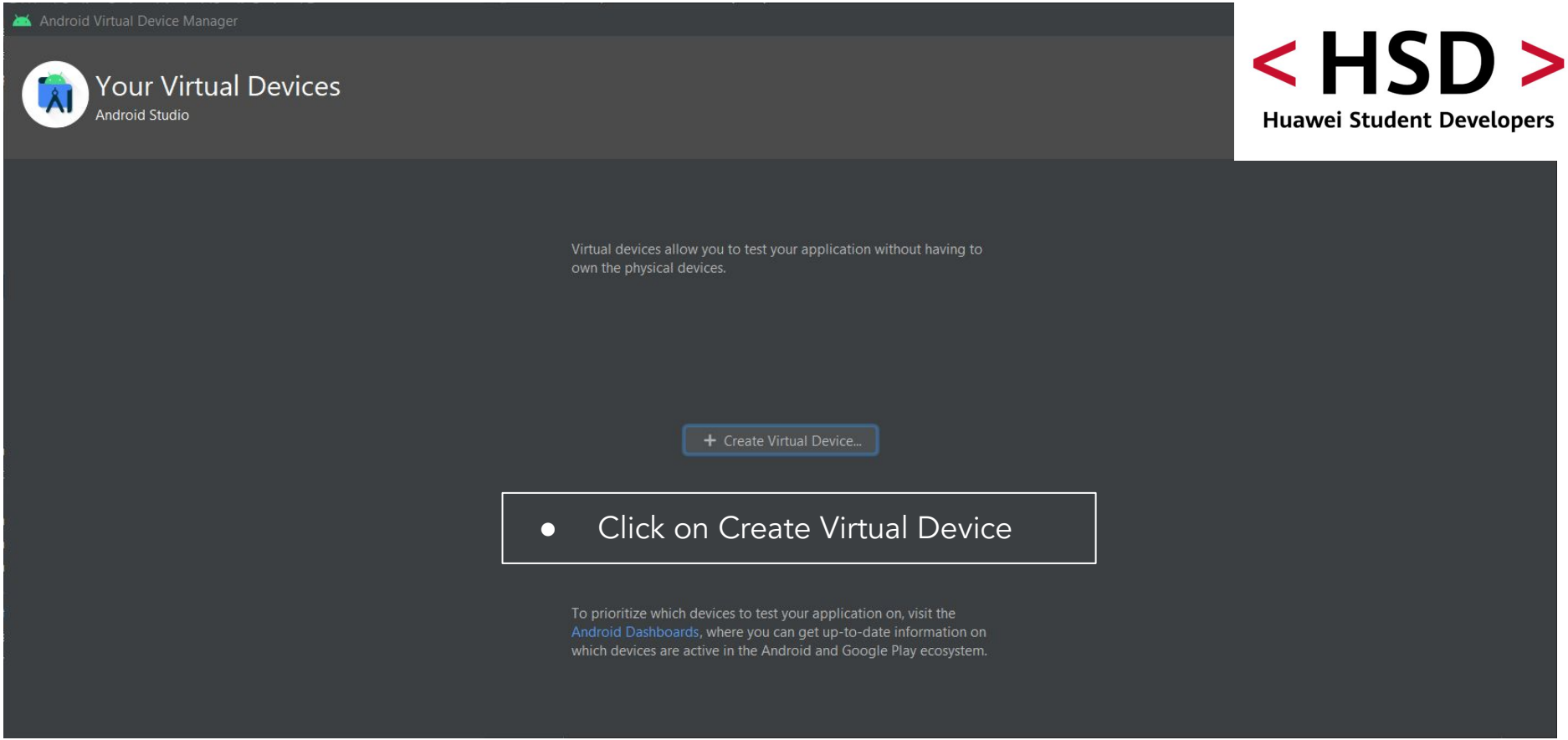
- Now let's try to run our app.
- On the top bar, click on the No Devices Drop Down list.
- Select AVD Manager.

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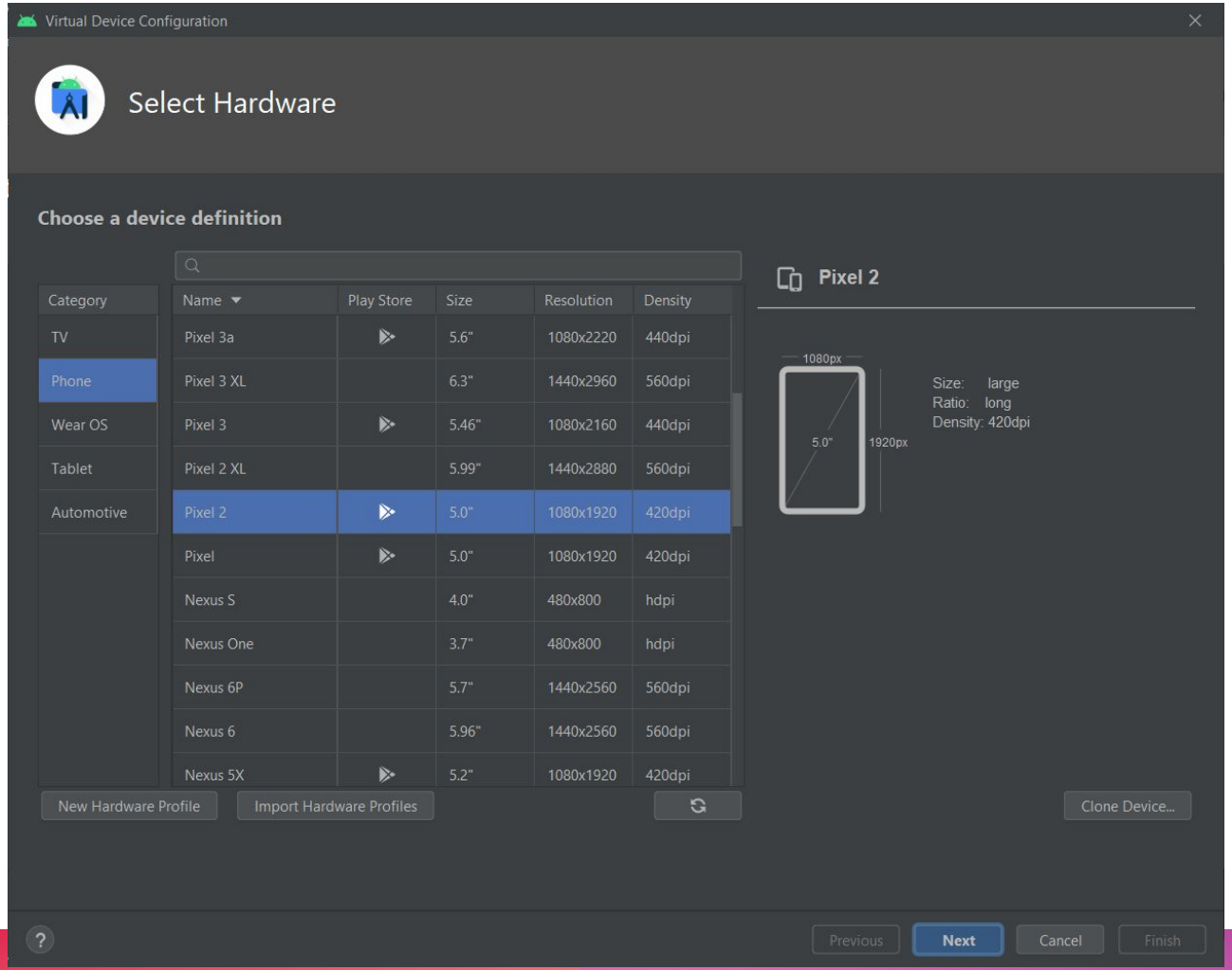
- Click on Create Virtual Device




- Select Pixel 2 and click next.

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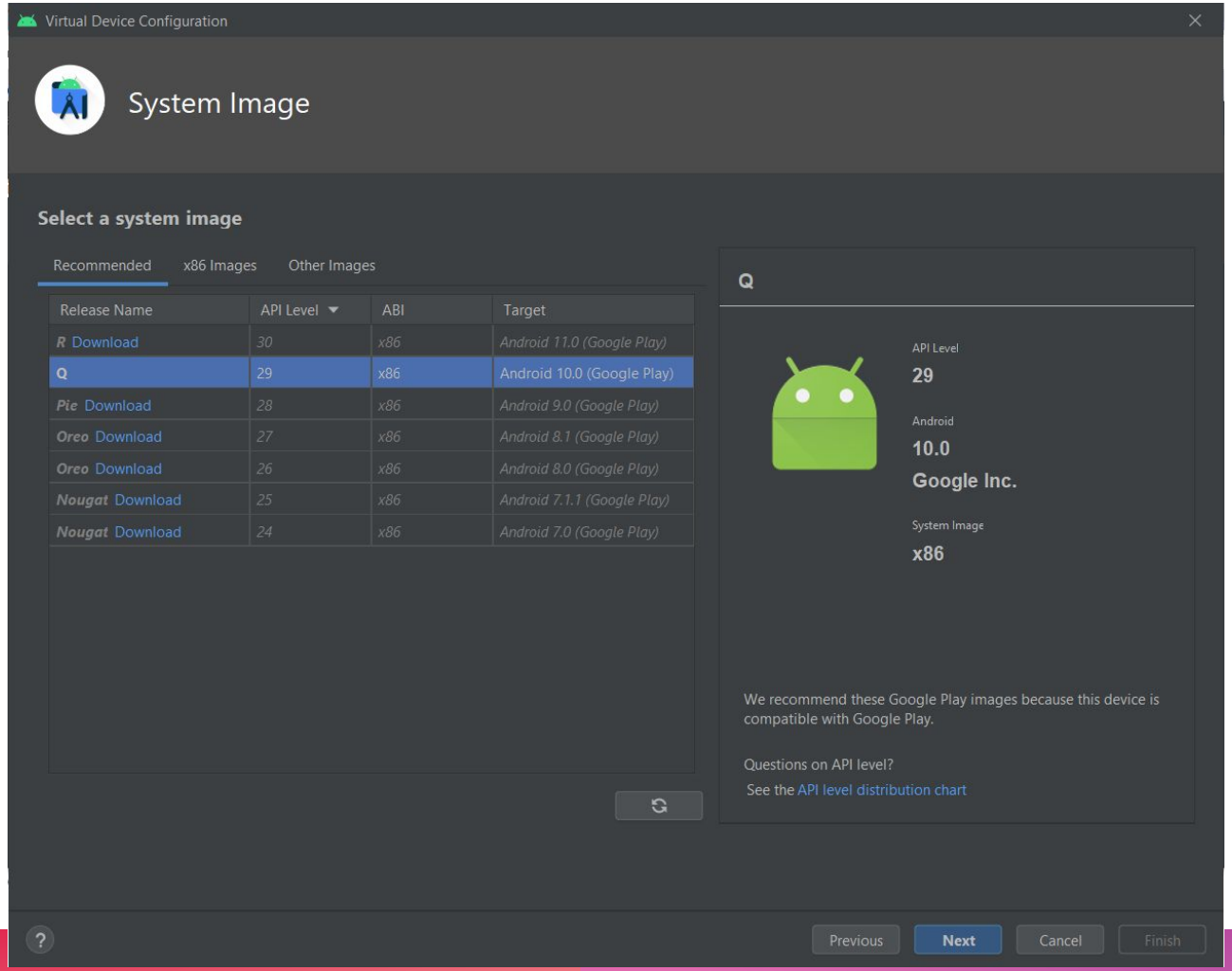
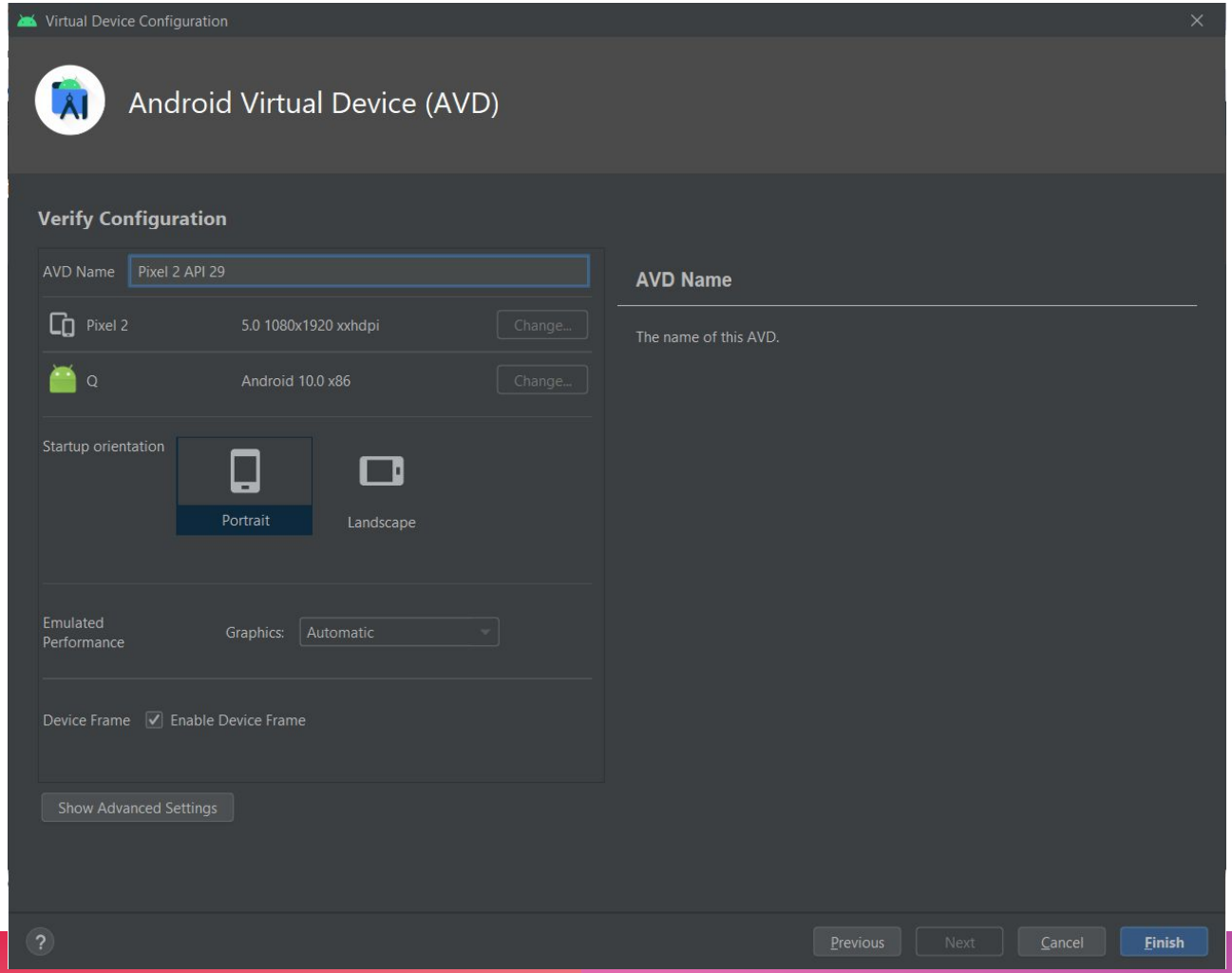
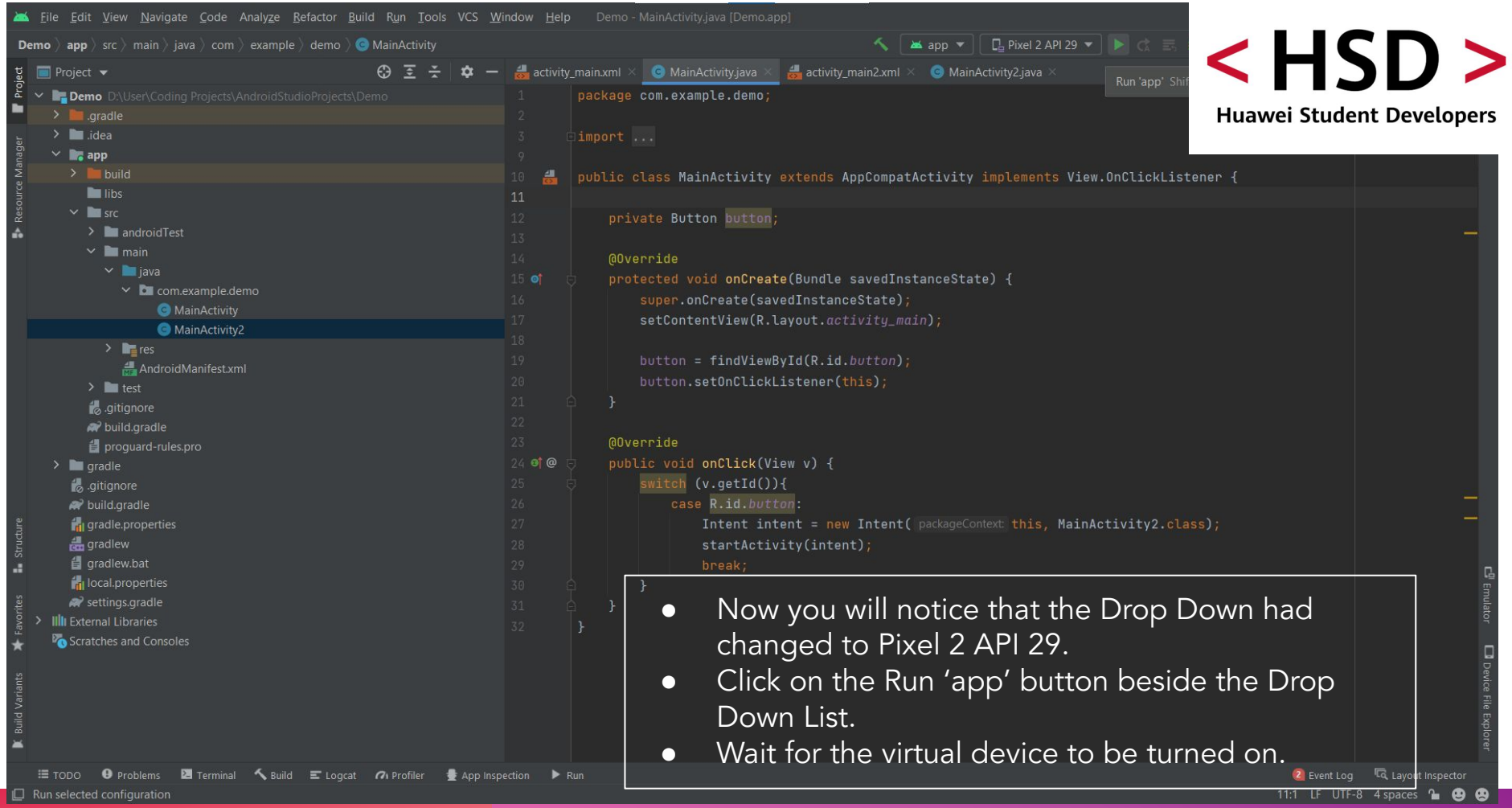



- Choose any android version of your preference.
- Here I'm using Android 10.0.
- You will have to download it first for your first time.
- After complete downloading, select the Android version and click Next.




- Select Portrait orientation and leave everything else as default and click finish.




- Now you will notice that the Drop Down had changed to Pixel 2 API 29.
- Click on the Run 'app' button beside the Drop Down List.
- Wait for the virtual device to be turned on.

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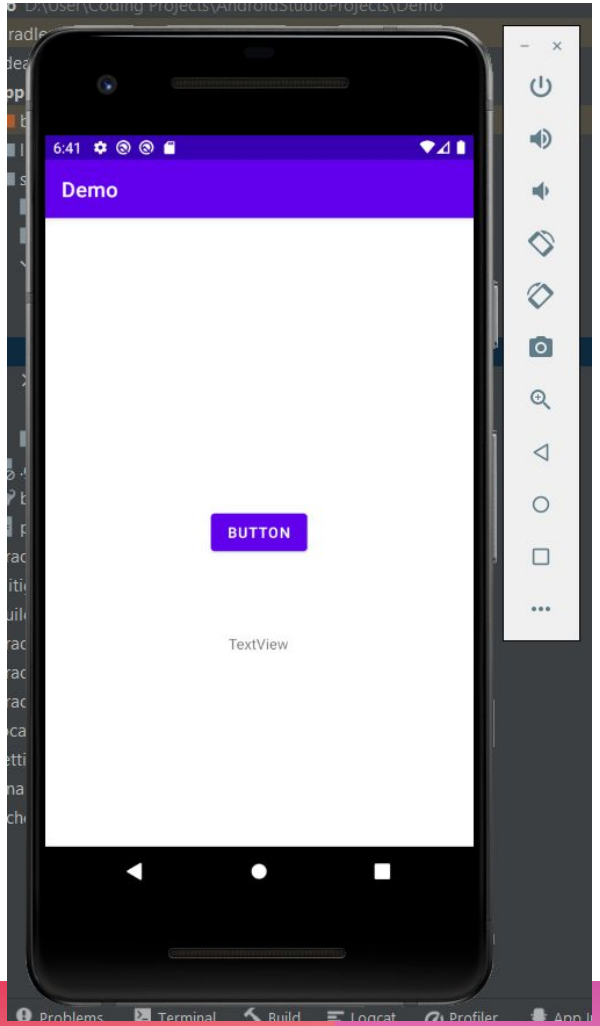
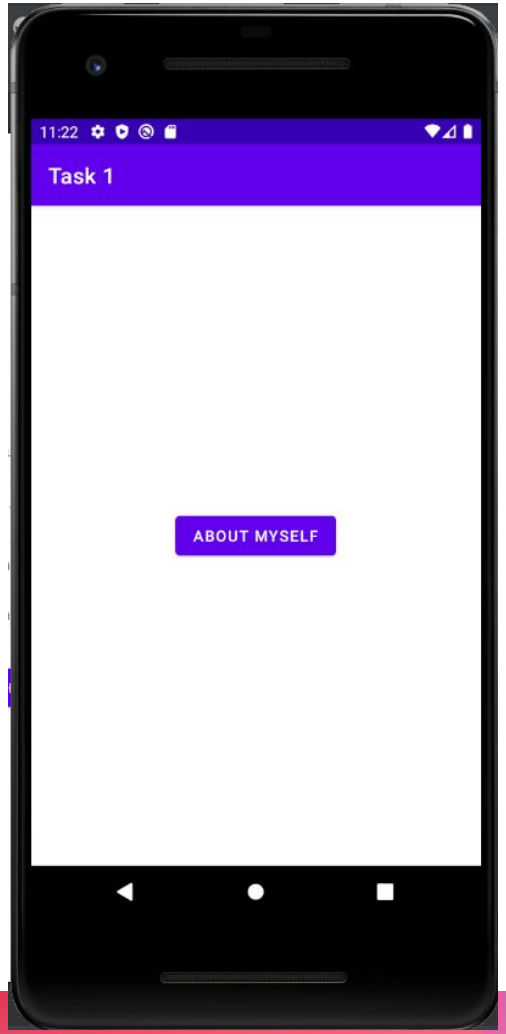
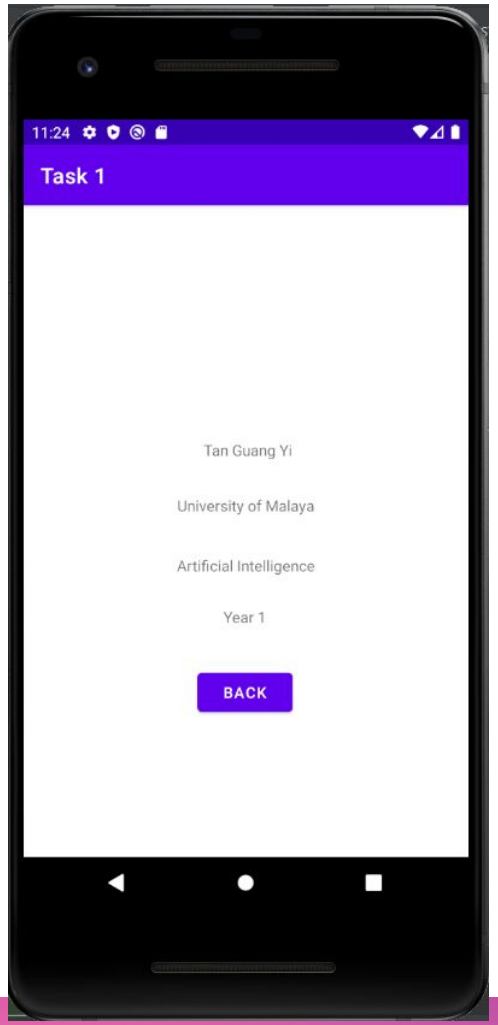



- Congratulations!
- You had successfully run your first app.




Self-help Task

- Create an app with 2 activities
- Activity 1 has a button that can navigate user to the second activity.
- Display your personal information in Activity 2.
- Add a back button that will navigate user back to the First activity.

# Thank You

Fill up the survey form below to get the Slides Presented.

Github Project Link: https://github.com/guangyitan/HSDWorksop1

Survey Form Link: https://forms.office.com/r/ApEGsYUHnt

Survey Form QR Code:

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