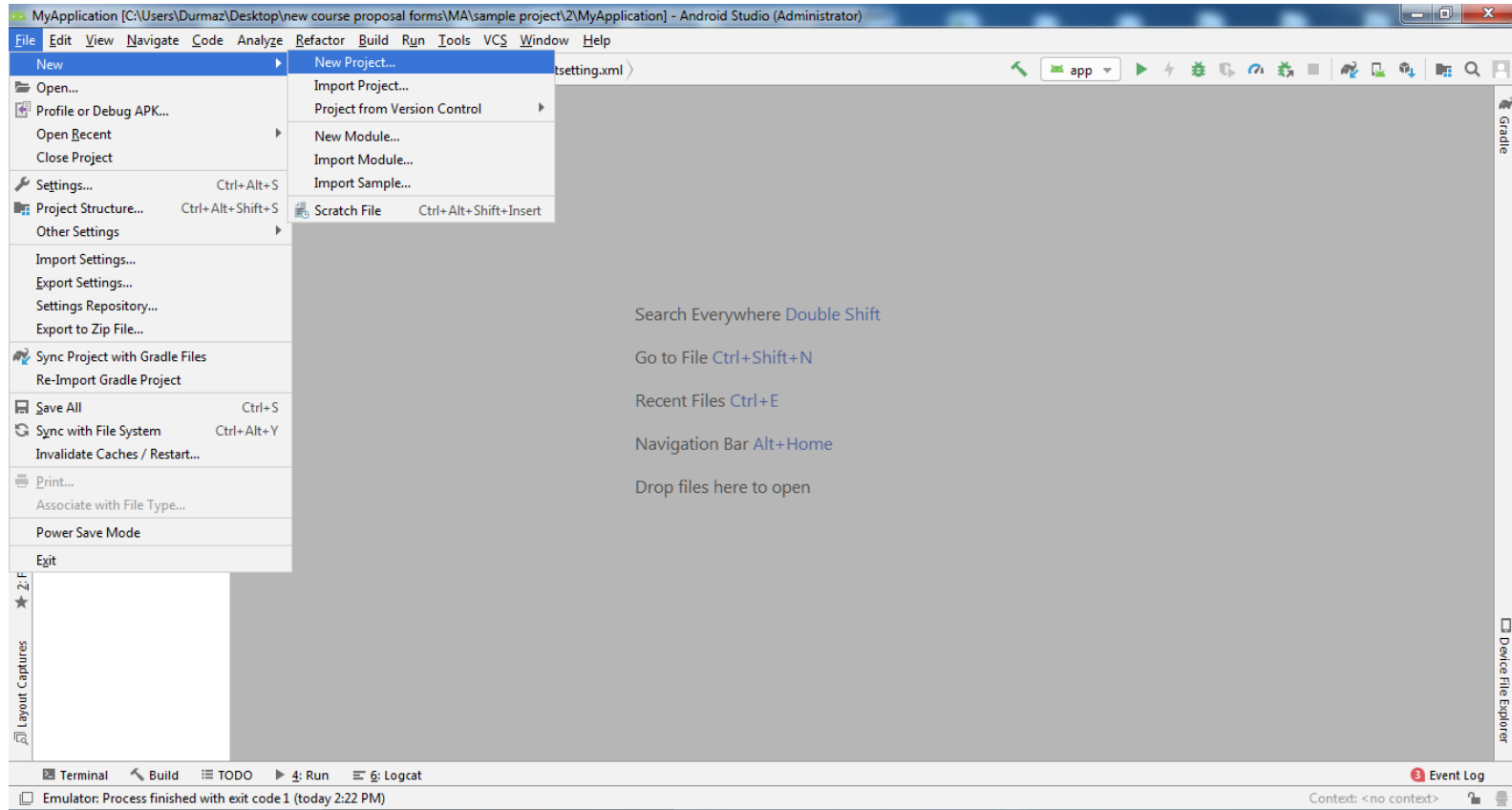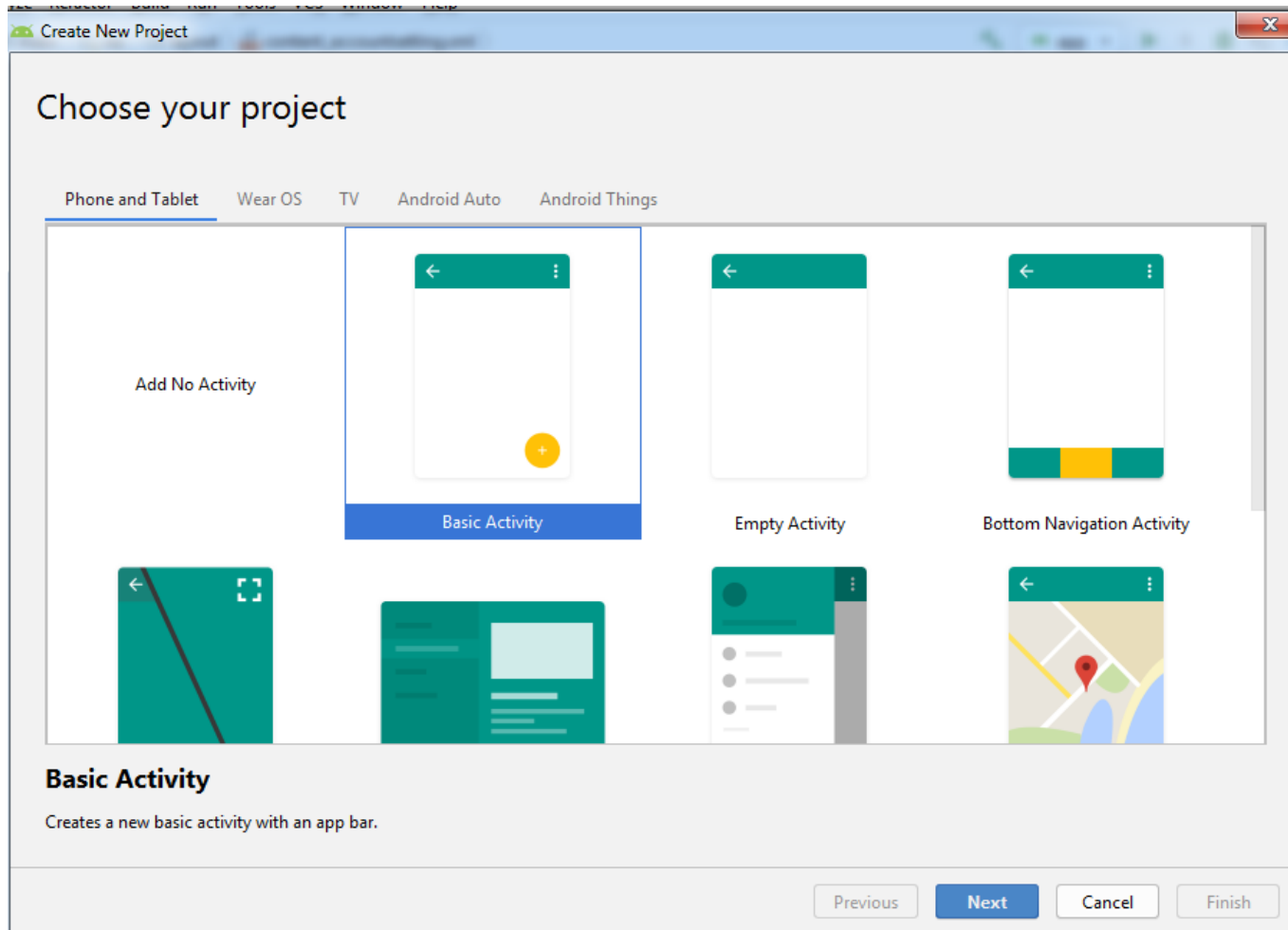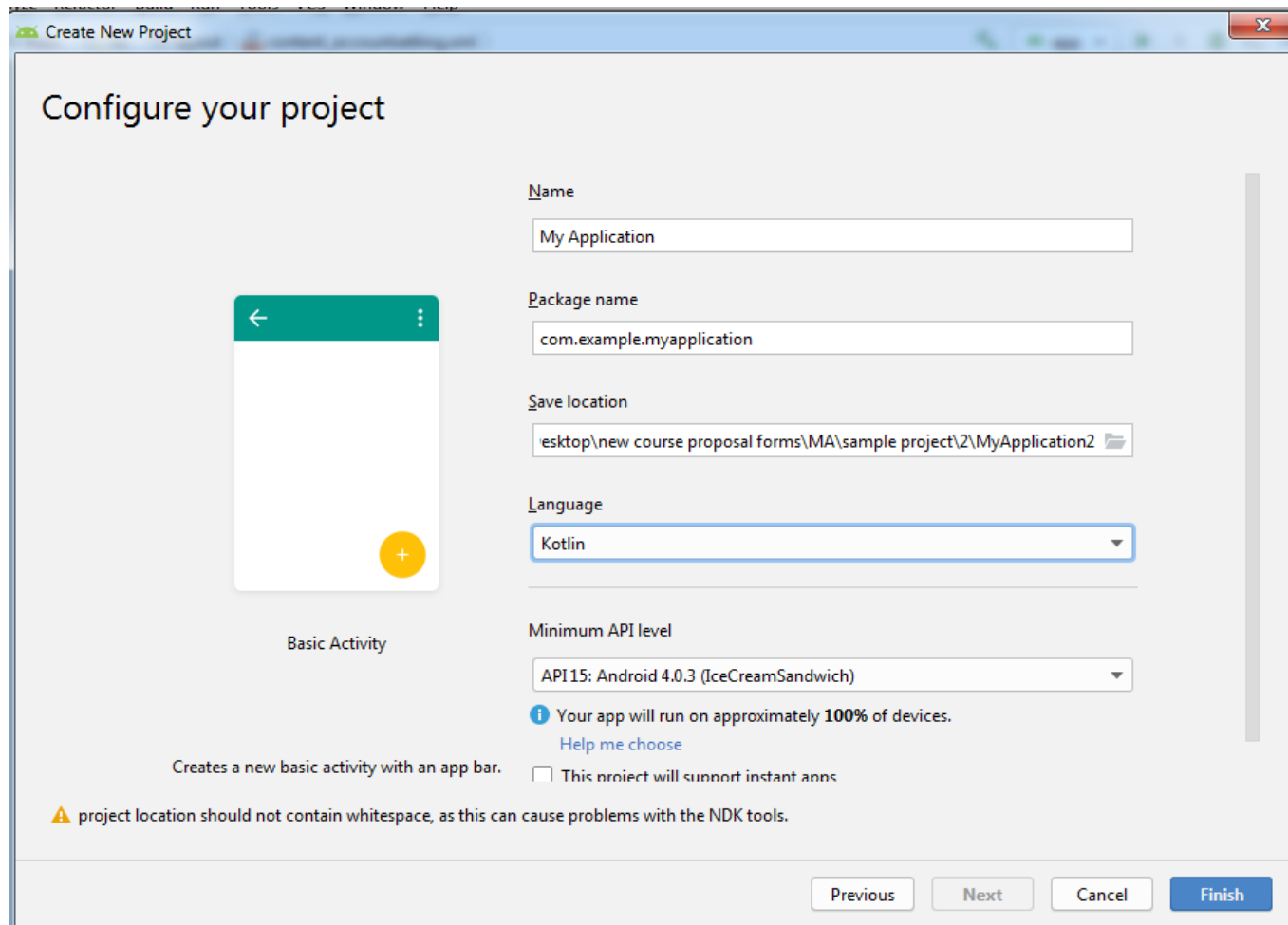1- Open the Android studio software.
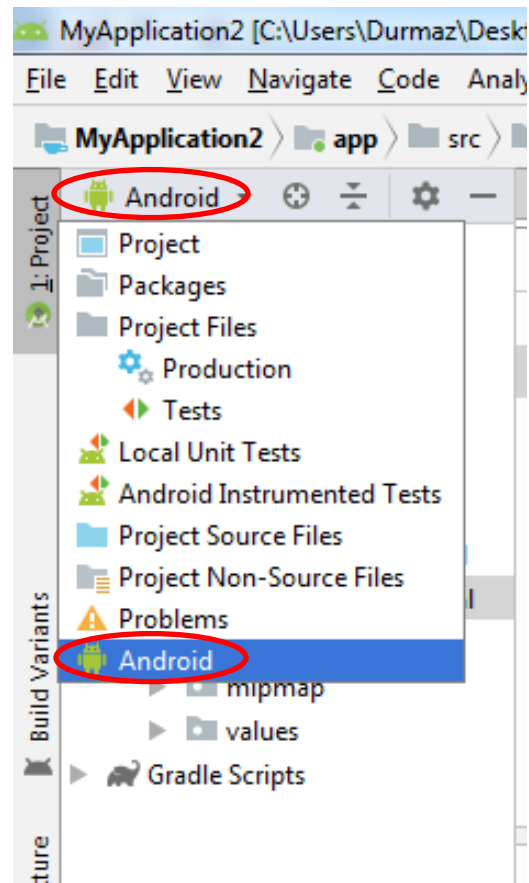2- Open a new project, **File→ New→ New Project**

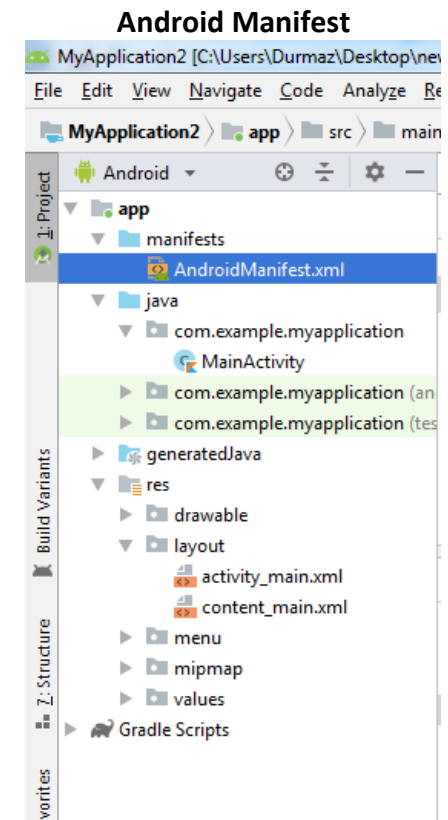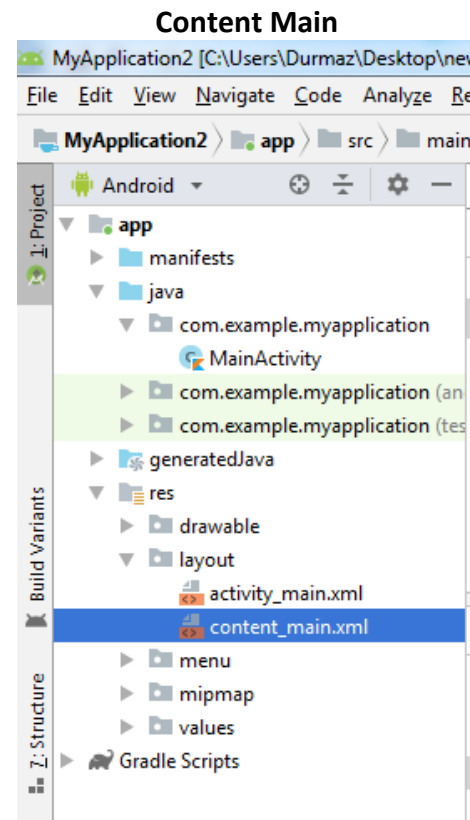3- Select the **Basic Activity**
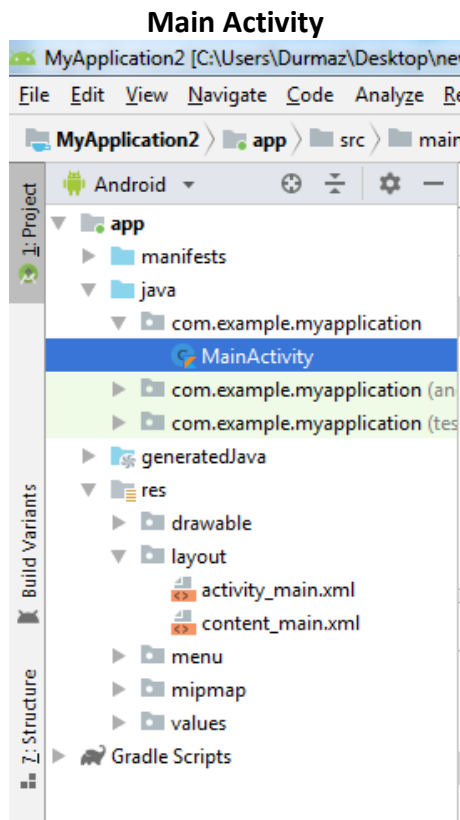
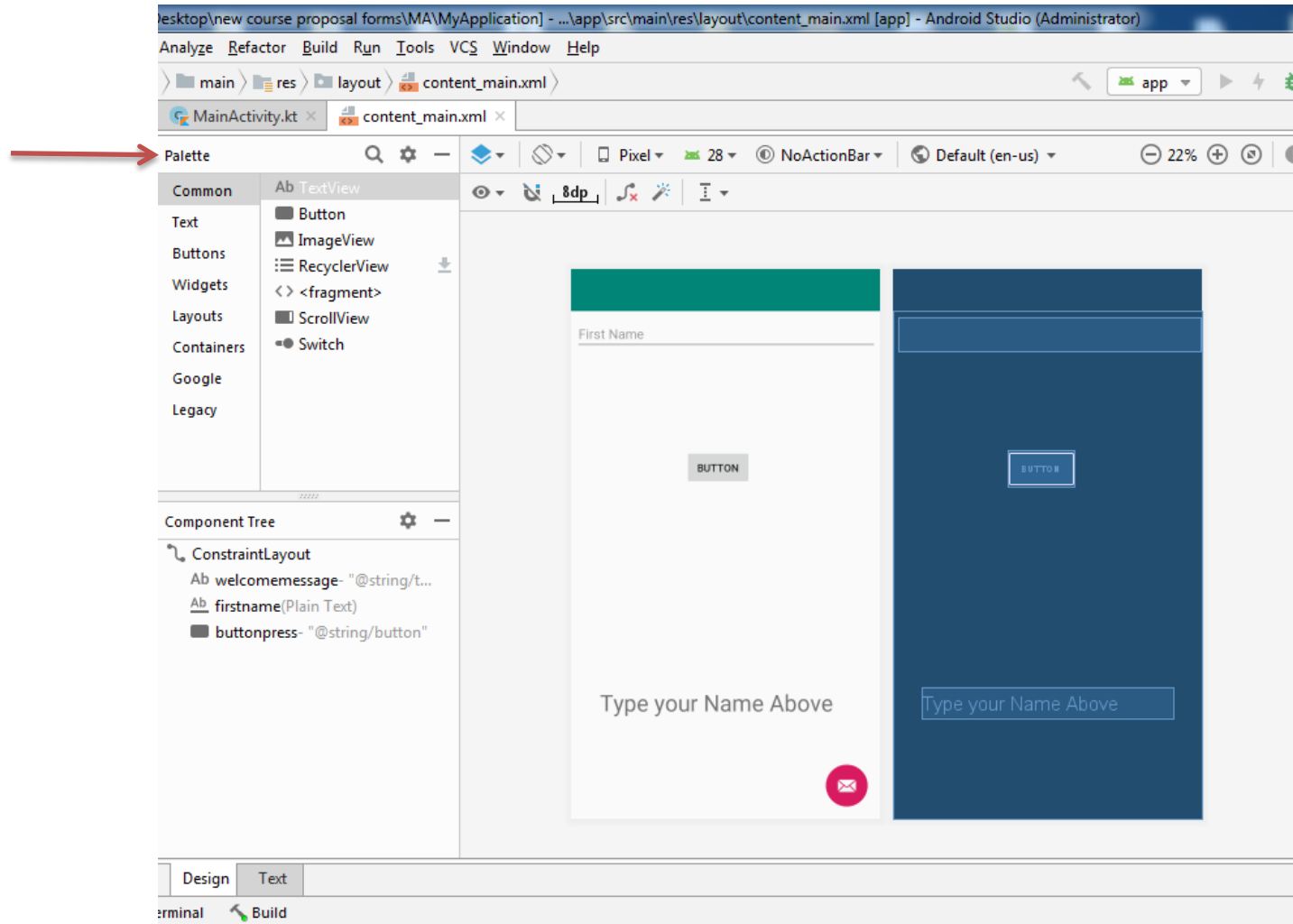4- Set the project name , location, and select Kotlin language

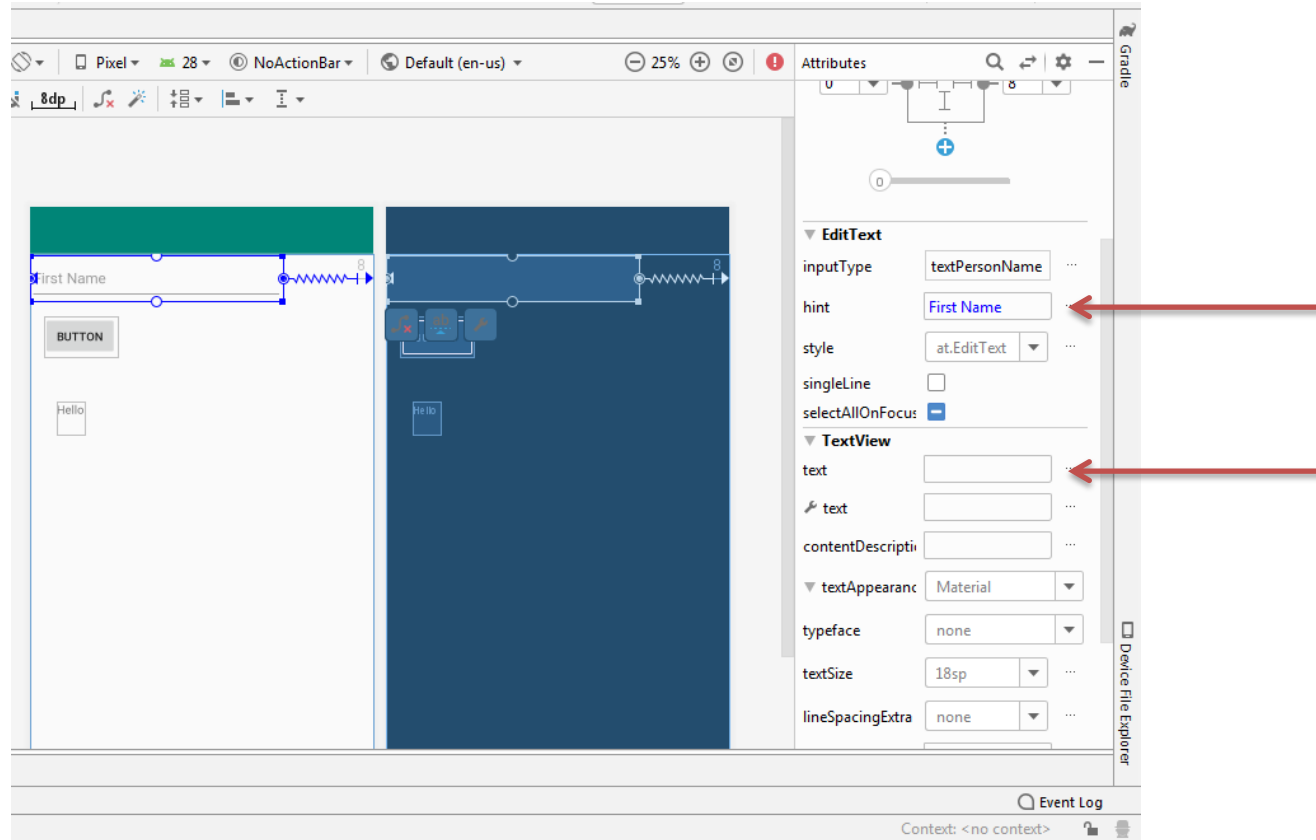5- From the project panel on the left, make sure that **Android** is selected.

6- There are the important windows to check, **Content Main** contain elements for the app **interface**, **MainActivity** contain java codes of the app, and the **Android Manifest** presents essential information about the application to the **Android** system, information the system must have before it can run any of the application's code.

Main Activity	**Content Main**	**Android Manifest**

7- From palette panel, add a <u>button</u>, <u>Text view</u> and <u>plain text</u>.

8- For the **Textview**, from the attribute panel, write**' Type your name above'** into the **text** box.

9- For the plain text delete the **'name'** from text box, and in the **hint** box write **First Name**.

10- Assign an ID for all the components. (button, text view and plaintext)

11- Go to the **MainActivity** file and write a code to show this message to user:

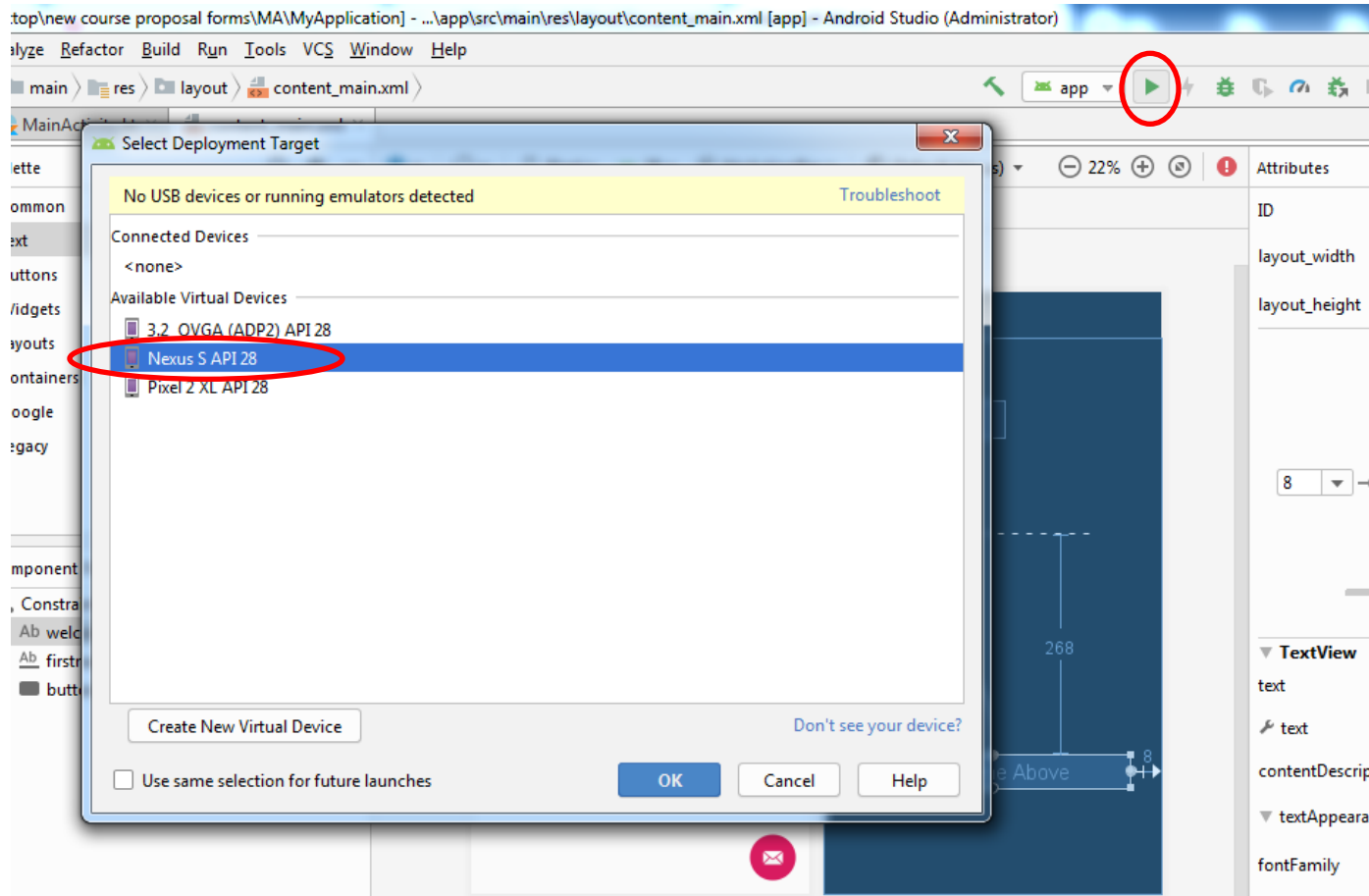> **"Welcome, First name   , How are you doing First name"**
>
> Name will be given by user when running the app

Hint Code

```
Button_ID.setOnClickListener()  ───▶   When user click the button
{
textview_ID.text= "welcome, ${plaintext_ID.text}, How are you doing, ${ plaintext_ID.text}"
```
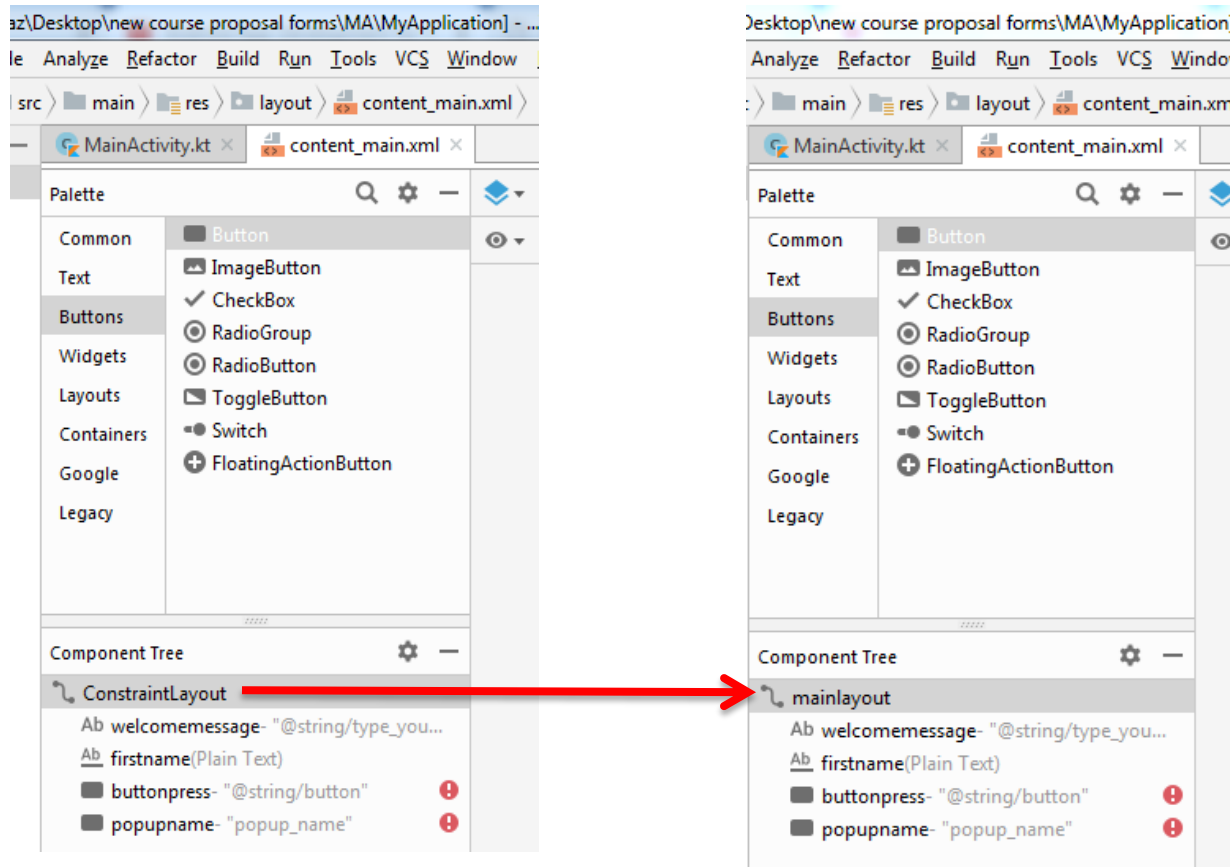
```
}
```

12- Click on the Run button and select the installed emulator to execute your app.
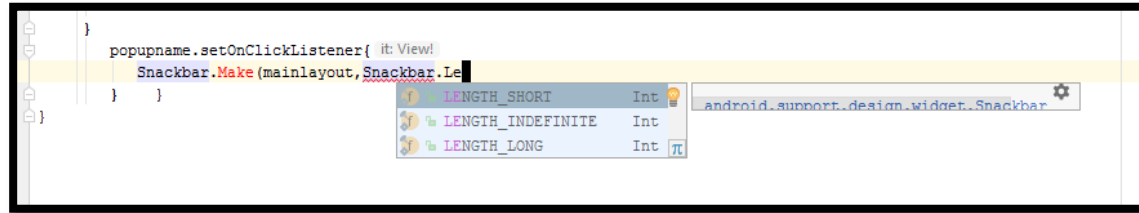
Second Part!

1. In the component tree panel, select the **ConstraintLayout**, and change its **ID** to **mainlayout** from attribute panel**.**

2. Add another button and change the button's name and its ID to '**popup_name**'

3. Type a code to show welcome popup message for the popup button

- Length_Short → keep the popup message for 2-3 secs

- Length_Indefinite → keep the popup message forever

- Length_Long → keep the popup message for 5 secs

```
Hint Code

popupnamebutton.setOnClickListener{

    Snackbar.make(mainlayout, text:"welcome", Snackbar.LENGTH_SHORT).show()

}
```

4. Edit the formula to show the given name after welcome popup message