**Mobile Computing Progress**

Lecture no. 02

In this lecture, discuss about git, GitHub use. Why and how we use them. Main purpose of using GitHub is team collaboration.

* First of all create an account on GitHub via any of your email.
* On the right top corner we can edit our profile and on its left we have drop-down menu for repositories management. Where we can create our new repositories. We can make our work on GitHub Public/Private.
* Install git or GitHub Desktop to work on GitHub.
* Login to Git or GitHub Desktop to proceed work.

**Steps to clone a Repository:**

* Click file option present on left most position of menu bar
* Drop-down menu appears -> select **clone repository** option
* Copy the link of repository you want to clone on your system.
* Paste the repository link in GitHub Desktop.
* Choose clone option and select directory of system to save it.

**Push, Pull** and **Commit:**

* To save the changes made in the local folder we use the term commit.
* After committing the changes we need to pull changes to origin.
* If the changes were made on GitHub by other user then we push the origin first and then merge files

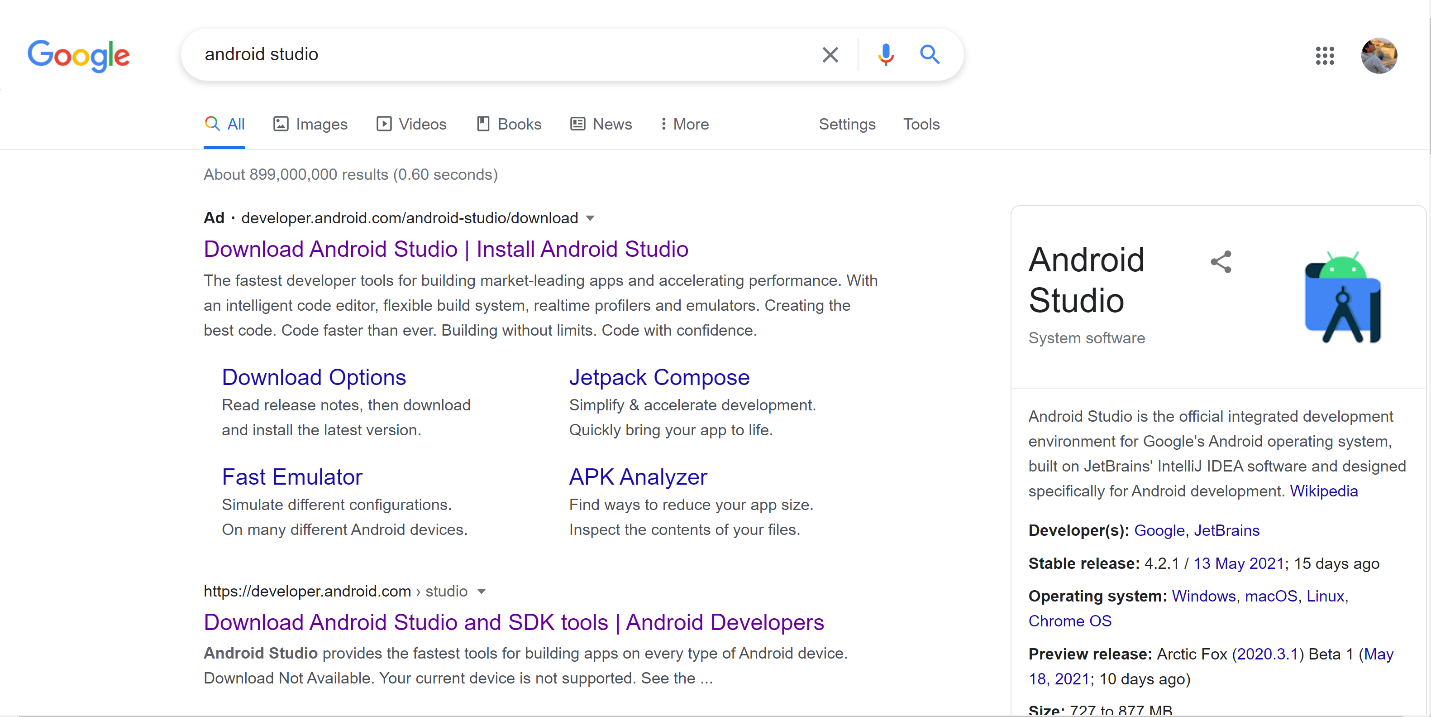
Lecture no. 03

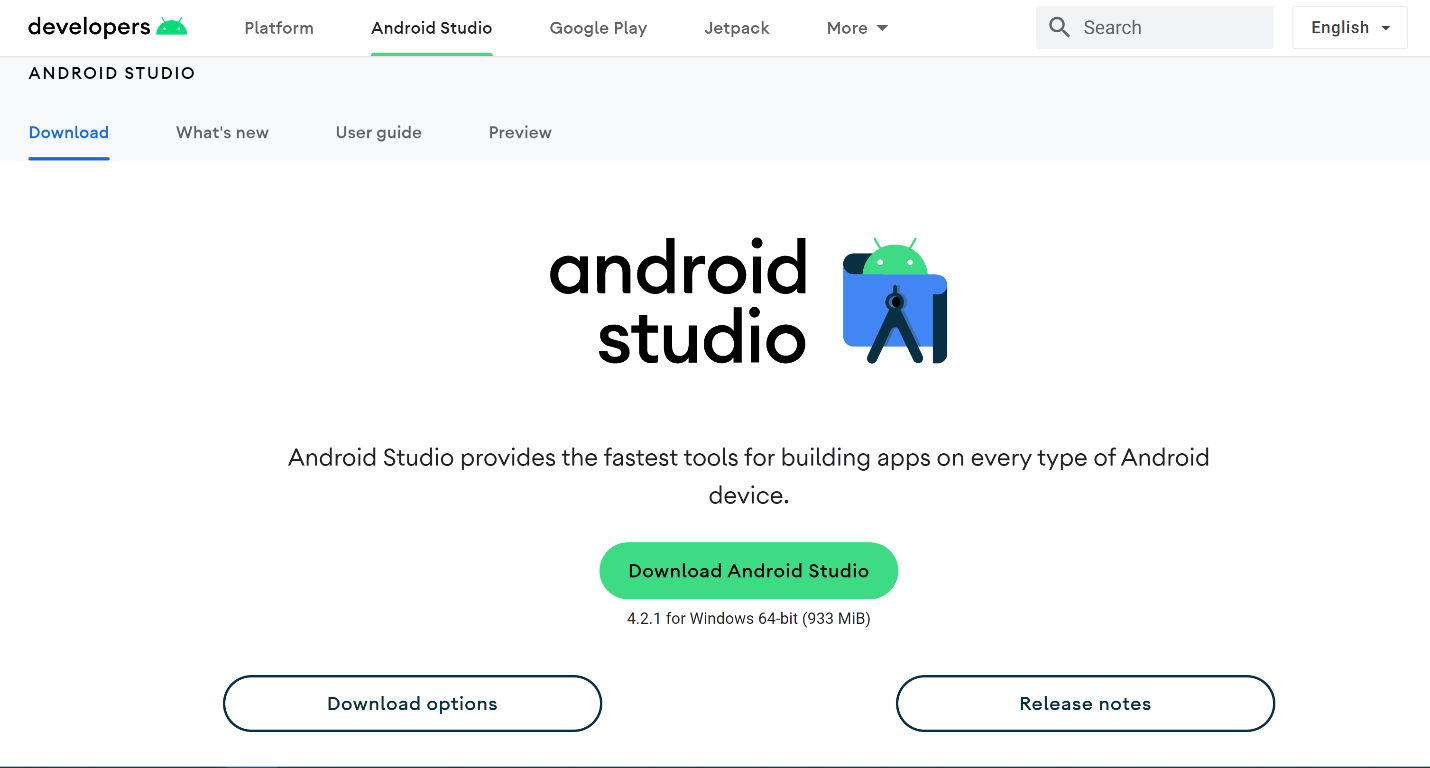
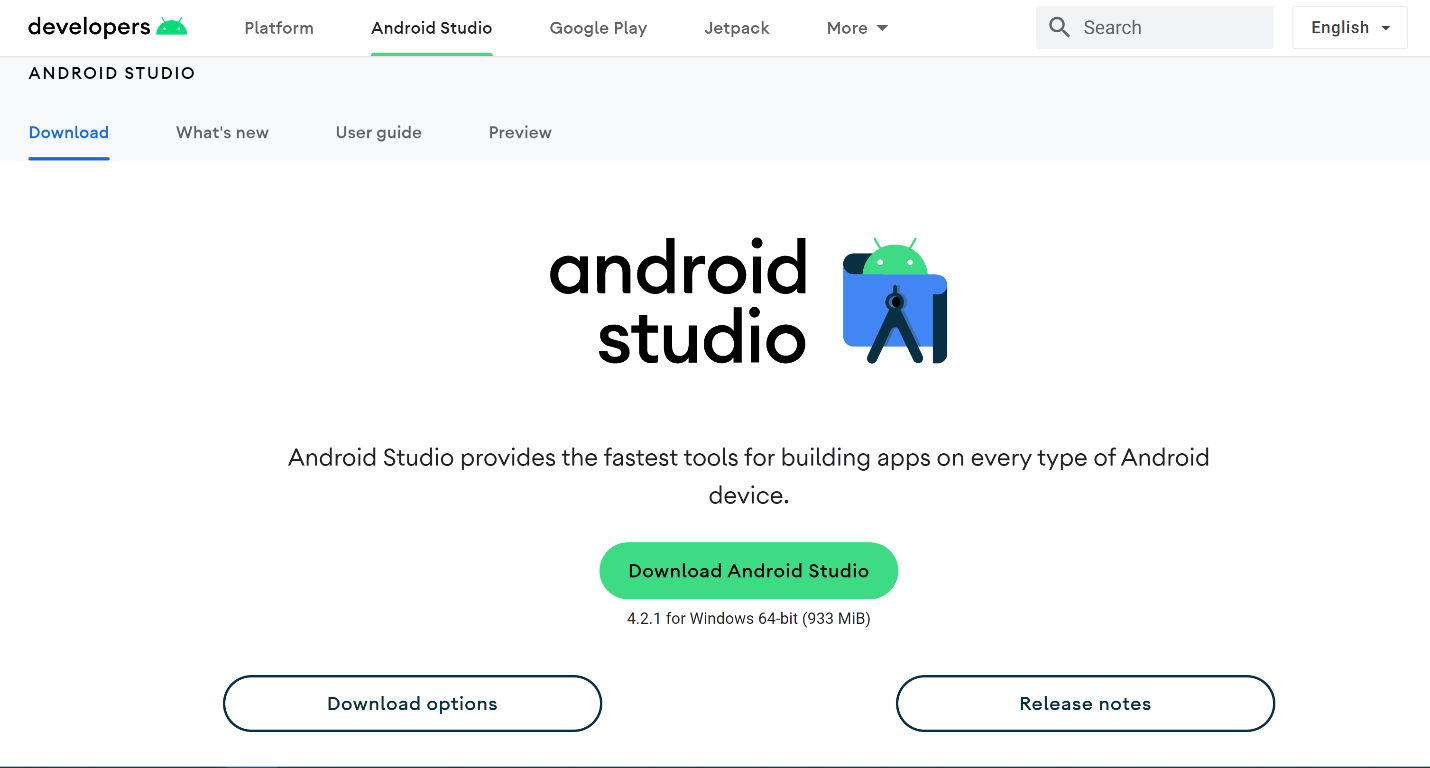
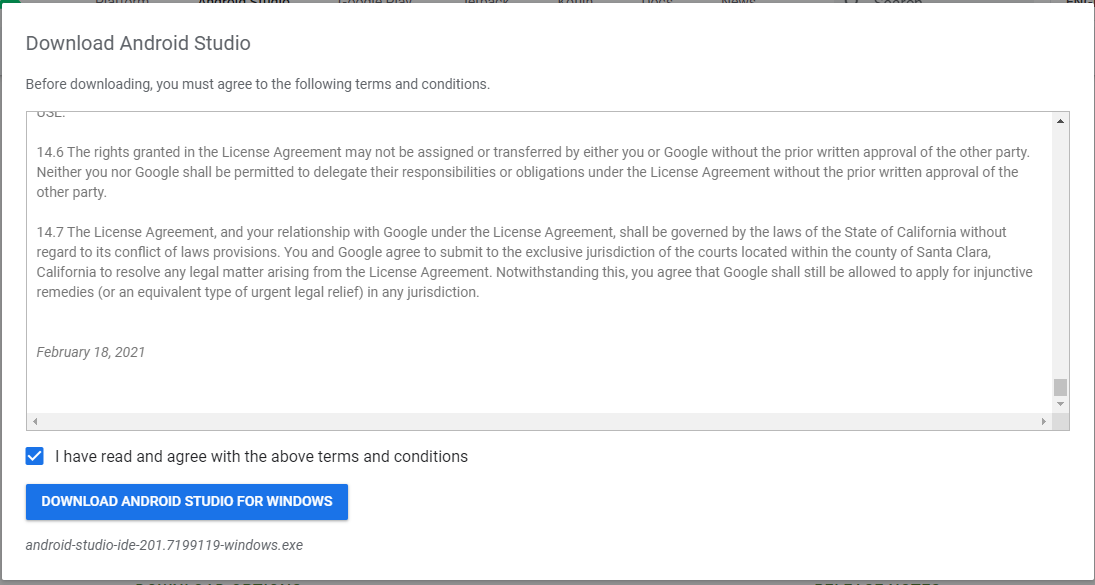
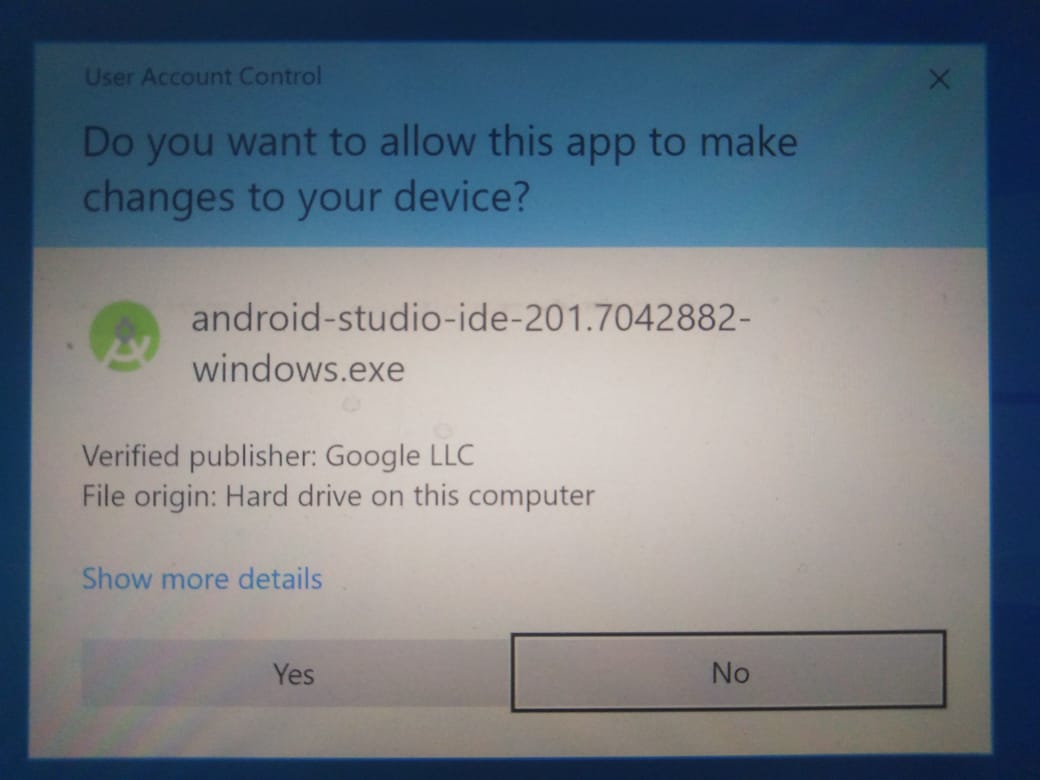
In today’s lecture first of all Sir has recalled all the precious learning about Git and GitHub. Then Sir, told us about merge conflict issue, Branches and Git log. Merge conflict issue is that which occur when different people made different changes to same file.Git log is a utility tool to review and read a history of everything that happens to a repository. GIT BRANCH command lets you create, list, rename, and delete branches. It doesn't let you switch between branches or put a forked history back together again.

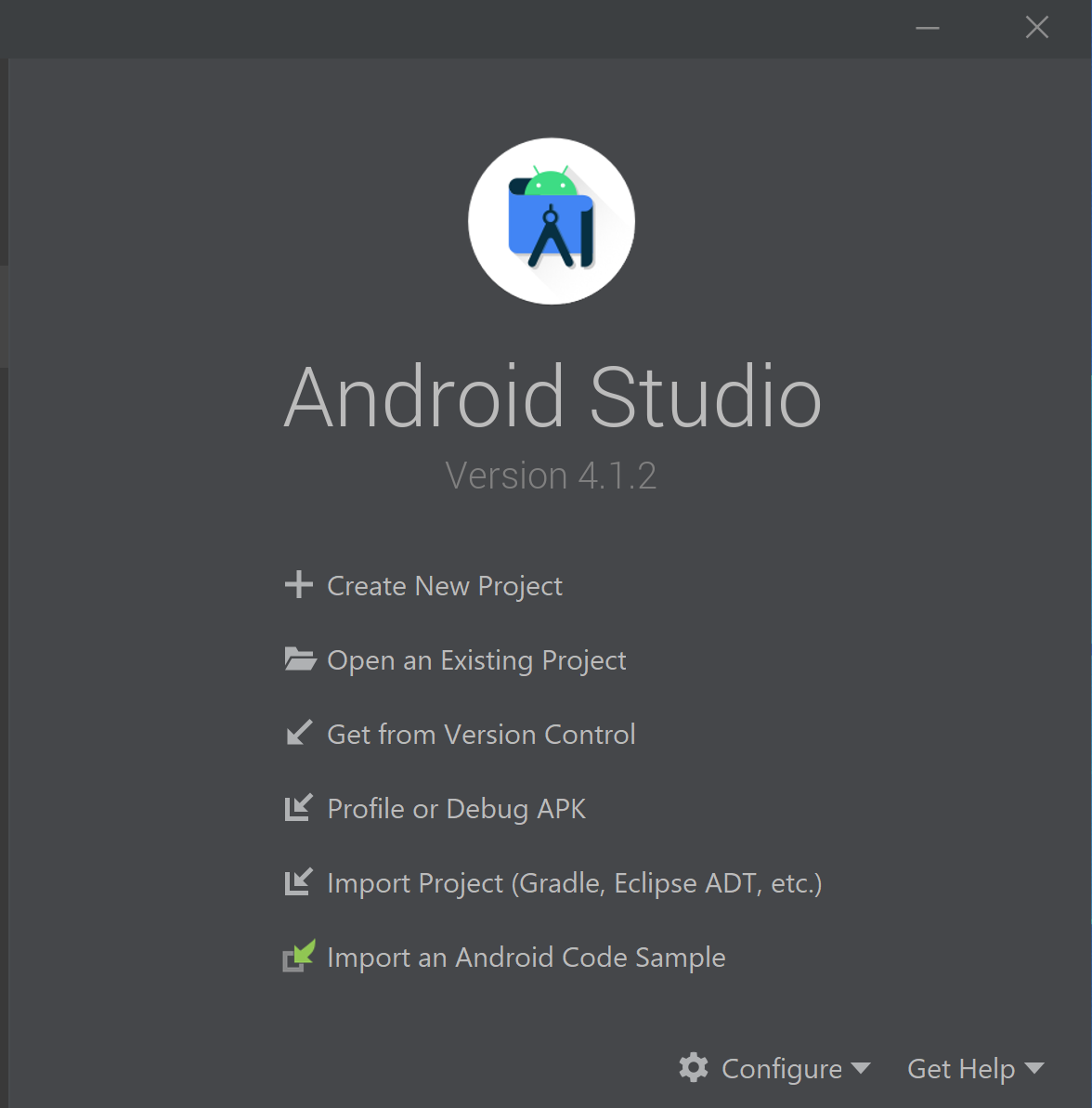
Lecture no. 04

Downloading Android Studio:

1. Search **Android Studio**  from browser

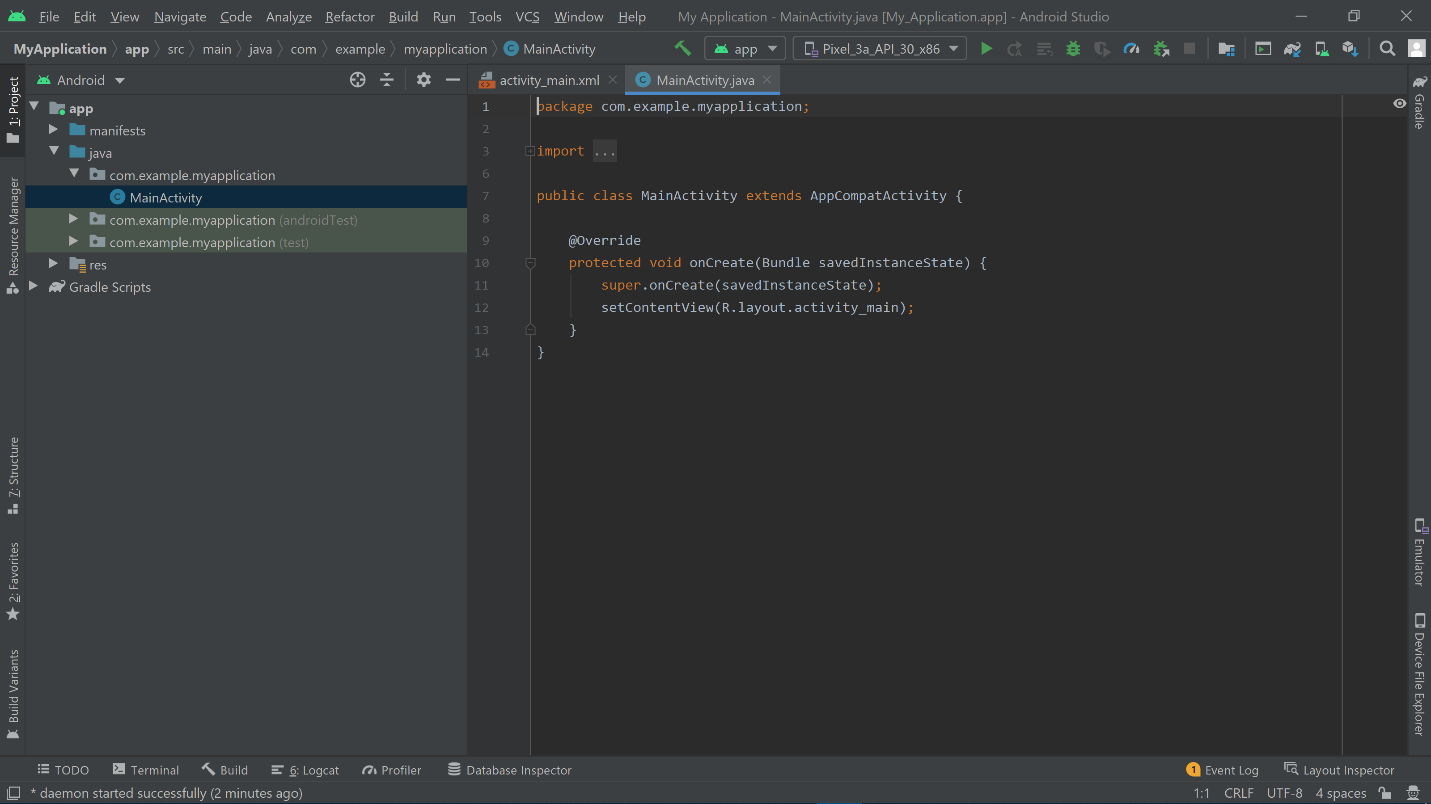


1. ****Click on first link to open the Website
2. ****Click on **Download Android Studio** depending upon the machine
3. Following pop-up window opens up, after clicking checkbox click download button
4. .exe file will start downloading, wait till the download complete
5. **Double-Click .exe** file following screen will appear. Click “Yes” to start Installation process.
6. ****Wait until the Installation process complete.
7. Run the Android Studio, following screen appears.

****

1. **Select** Option to create a New Project
2. **Select “Empty Activity”** Project Template to proceed
3. Enter “Name of Project” in **Name** field and select the destination folder where you want to save the project.
4. Select **Java** from language drop-down menu.
5. Select version of Android you want your app to support in the **Minimum SDK** field.
6. Click Finish.

After some processing Android Studios main activity appears.



Little intro to files of the project:

app > java > com.example.myfirstapp > MainActivity

This is the MainActivity. It's an entry point for every project in Android Studio for each app. When we build our app, the system launches an instance of this Activity.

app > res > layout > activity\_main.xml

This XML file defines the layout for the activity's user interface (UI).By default it contains a TextView element with the text "Hello, World!"

Lecture no. 05

**Layouts:**

Layout defines the structure for a user interface in your app, such as in an activity. All elements in the layout are built using a hierarchy of View and ViewGroup objects.

First create an empty project by following the steps we followed in last lecture.

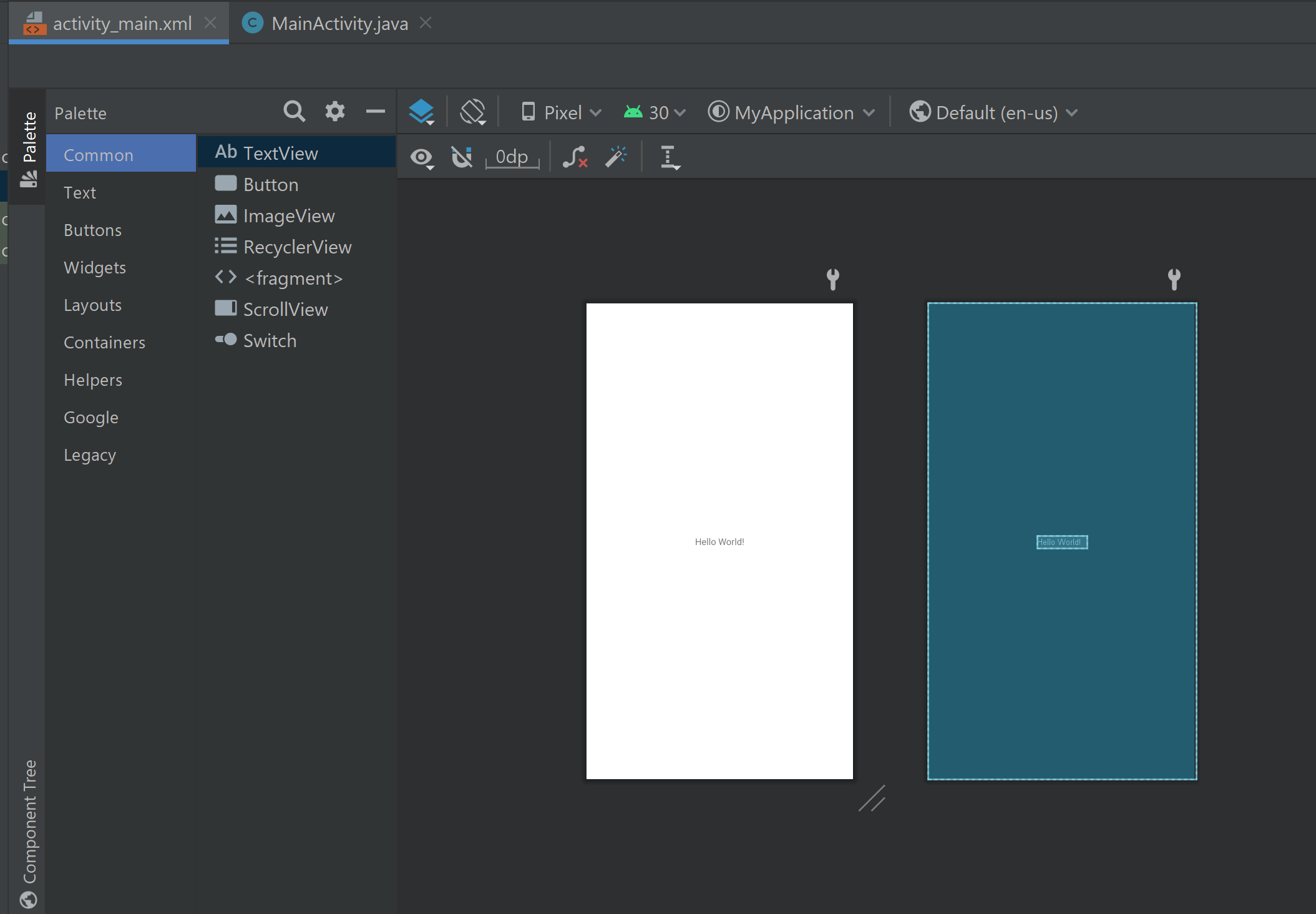
Way to create a new layout in project is as following:

Right click on layout folder > Choose New option > Choose Layout Resources file > Name your file properly > Choose your Root Element > Click ok

New Layout is created.

**Constraint Layout:**

Default Layout that allows the programmer to set a series of constraints on elements of the view. These constraints define an element's size and location with the super-view and manage how these properties will adjust to changing super-view size and/or orientation.

Here the left Layout is called design layout where as other layout is called Blueprint Mode. Its design layout can be changed from dropdown menu present on left most.

Here are some more details about layout.

