

How to use Android Studio my first project

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Introduction

This tutorial was tested on Win7 64bit Pro.

The PC that I used is HP with processor i5 vPro and 4G of RAM.

Pay attention that when you choose some options (Build, Debug) you must waiting some seconds before to see the execution of your selection.

For using **Android Studio** must be present on your PC the **Java JDK**.

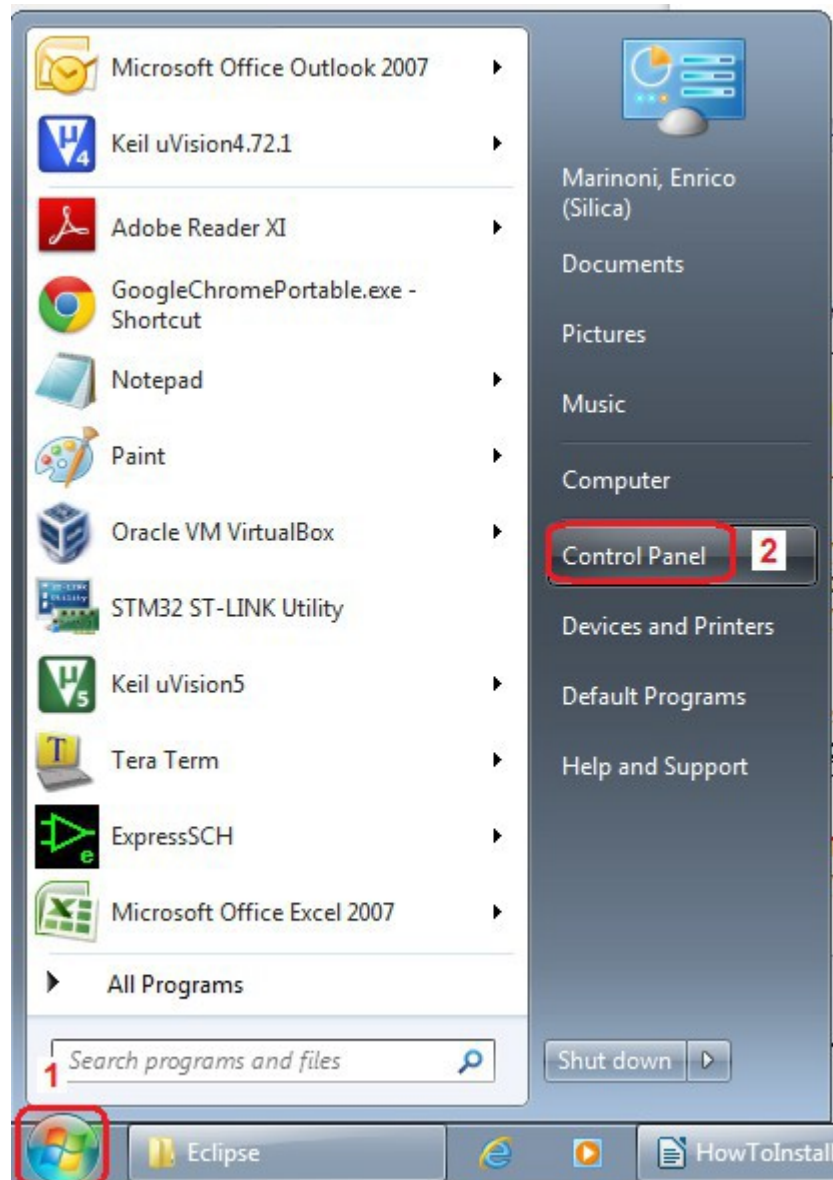
The **JDK** is a development environment for building applications, applets, and components using the Java programming language.

The **JDK** is also called: **Java SE Development Kit**

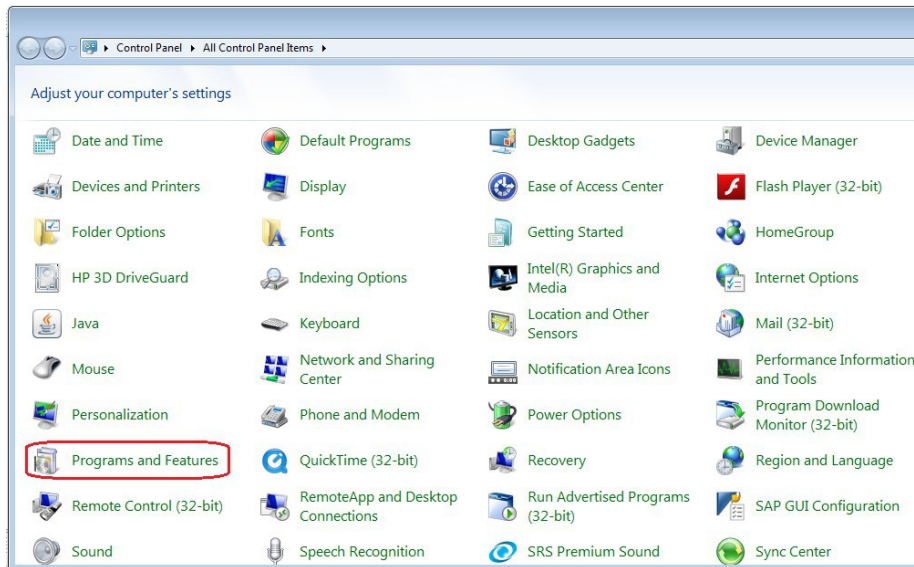
Install Java JDK


If you don't know if there is a **JDK** (also called: **Java SE Development Kit**), on your PC do this steps.

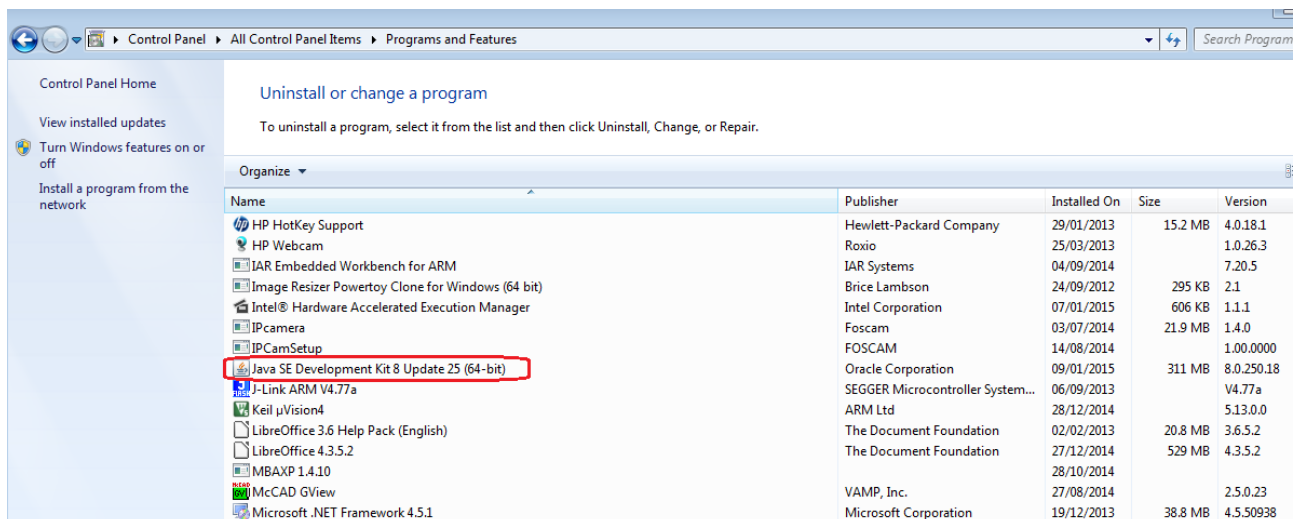
Select **START** (1) and next **Control Panel** (2), see below.



From the window that appears select:
Programs and Features
see below.



From the new window that appears you must see something like below, see the red box.
In my case I have installed the:  **Java SE Development Kit 8 Update 25 (64-bit)**



If you don't see Java JDK (JSE), please install it.
You must choose the right JDK (32bit or 64bit).
See [here](#).

The screenshot shows the Oracle Technology Network website. The browser address bar displays www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html. The Oracle logo is visible in the top left. The navigation menu includes links for Sign In/Register, Help, Country, Communities, I am a..., I want to..., Search, Products, Solutions, Downloads, Store, Support, Training, Partners, About, and OTN. The breadcrumb trail reads: Oracle Technology Network > Java > Java SE > Downloads. The main content area is titled "Java SE Development Kit 8 Downloads" and includes a "Downloads" tab. The text states: "Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, applets, and components using the Java programming language. The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform." Below this, a "See also:" section lists: "Java Developer Newsletter (tick the checkbox under Subscription Center > Oracle Technology News)", "Java Developer Day hands-on workshops (free) and other events", and "Java Magazine". At the bottom of the main content, it says "JDK MD5 Checksum". On the left, a sidebar lists various Java products: Java SE, Java EE, Java ME, Java SE Support, Java SE Advanced & Suite, Java Embedded, Java DB, Web Tier, Java Card, Java TV, New to Java, Community, and Java Magazine. On the right, there are two sections: "Java SDKs and Tools" with links to Java SE, Java EE and Glassfish, Java ME, Java Card, NetBeans IDE, and Java Mission Control; and "Java Resources" with links to Java APIs, Technical Articles, Demos and Videos, Forums, and Java Magazine.

Test your Java installation using this [link](#), see below.

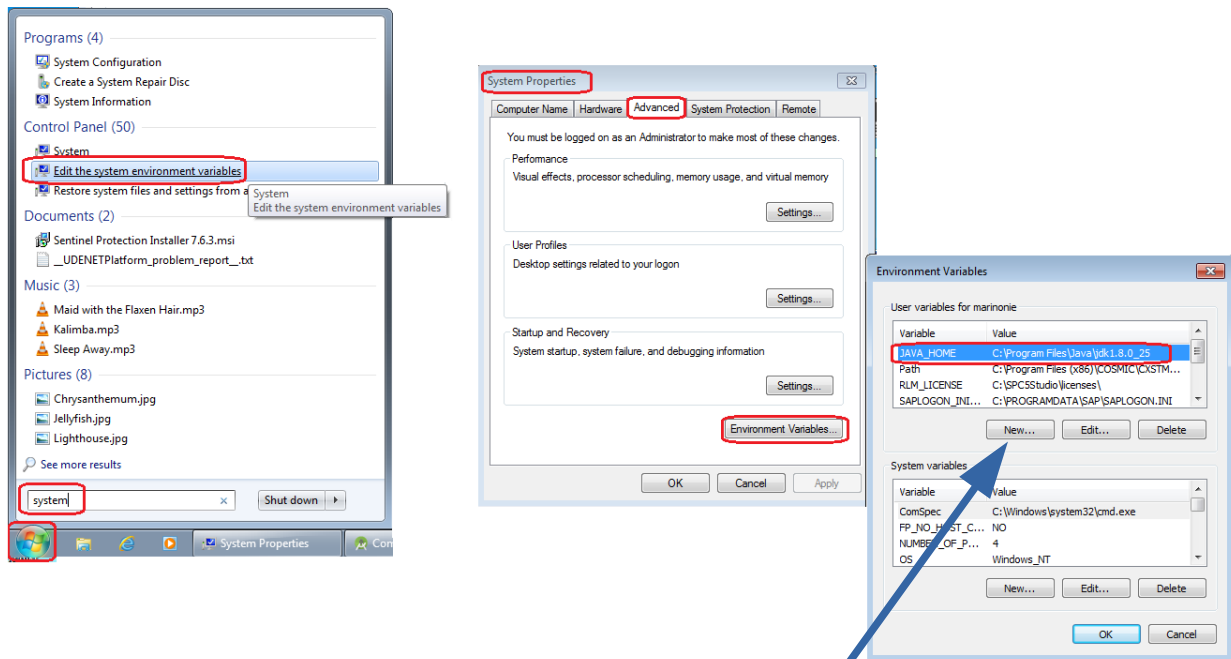


The screenshot shows the Java website interface. At the top, there is a red navigation bar with the Java logo on the left, a search box on the right, and 'Download' and 'Help' links in the center. Below the navigation bar, on the left, is a 'Help Resources' sidebar with a list of links: 'What is Java?', 'Remove Older Versions', 'Disable Java', 'Error Messages', 'Troubleshoot Java', and 'Other Help'. The main content area features a 'Verified Java Version' section with a green checkmark icon, the text 'Congratulations!', and the message 'You have the recommended Java installed (Version 8 Update 25)'.

Configure the Java System Environment Variable for Android Studio

For using Android Studio is necessary configure an environment variable called **JAVA_HOME**, for do this follow the instructions below.

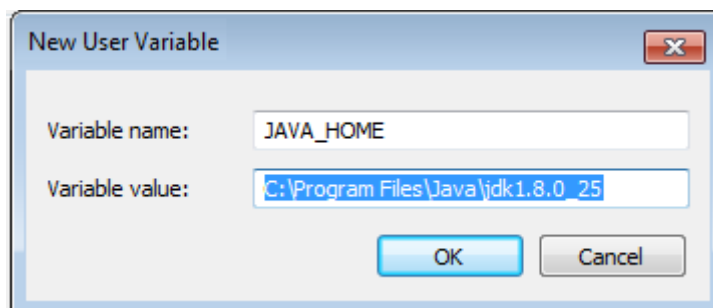
Start → **System.....** (see below)



It is very important to add this variable:

JAVA_HOME

for do this select **NEW** and configure the new window that appears, see below.



C:\Program Files\Java\jdk1.8.0_25

is the directory where there is JDK on my PC.

Install the USB drive for your smartphone or tablet for using it in debug with Android Studio

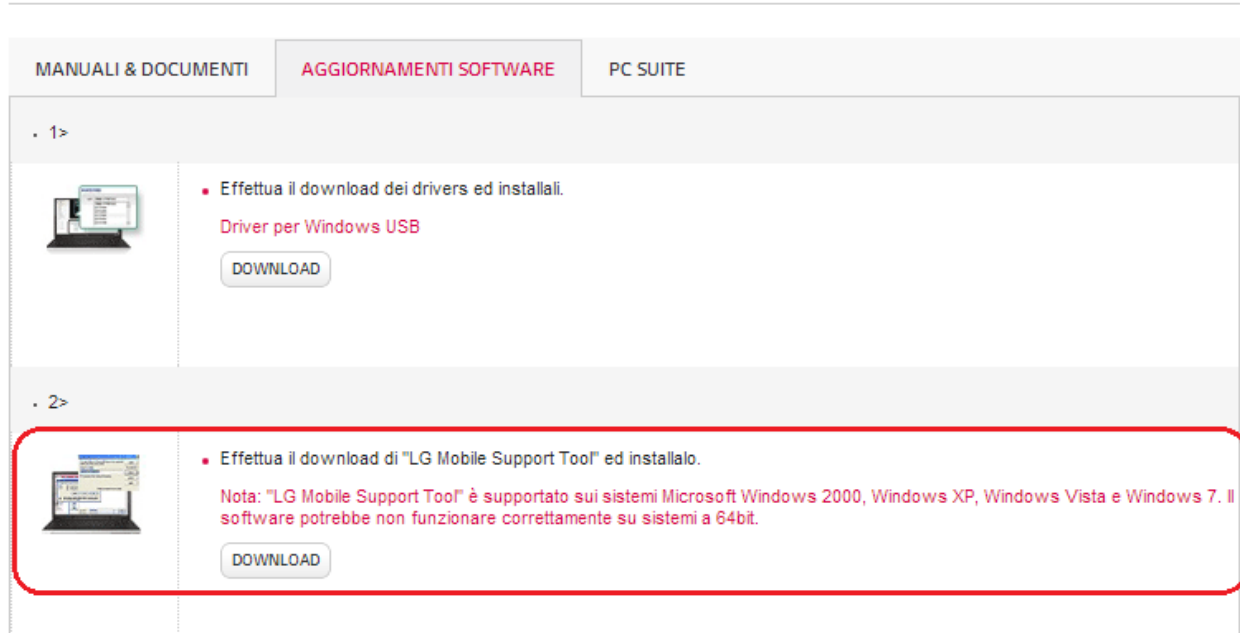
For use your smartphone or your tablet for debug your APP you must install the appropriate USB driver.

I have an LG-E610, for find the USB driver I did a search using google and this phrase:

Android Studio LG-E610

and I found this [page](#), see below, that contain the right driver.

MANUALI & DOWNLOAD



The screenshot shows a web interface with three tabs: "MANUALI & DOCUMENTI", "AGGIORNAMENTI SOFTWARE" (selected), and "PC SUITE". Below the tabs, there are two sections of updates. The first section, labeled ". 1>", contains an update for "Driver per Windows USB" with a "DOWNLOAD" button. The second section, labeled ". 2>", contains an update for "LG Mobile Support Tool" with a "DOWNLOAD" button. This second section is highlighted with a red rectangular border. The text for the second update includes a note: "Nota: 'LG Mobile Support Tool' è supportato sui sistemi Microsoft Windows 2000, Windows XP, Windows Vista e Windows 7. Il software potrebbe non funzionare correttamente su sistemi a 64bit."

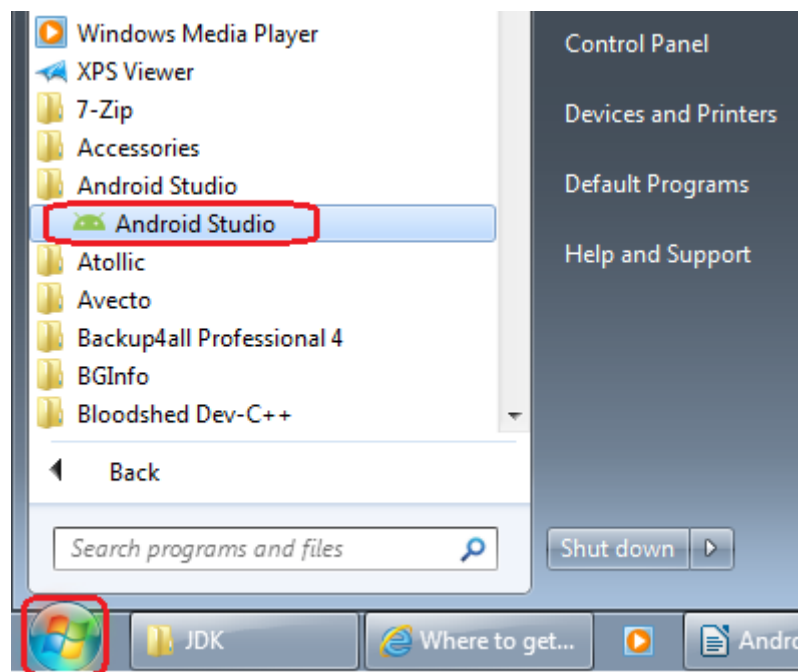
Do the same search for your smartphone or tablet.

Install Android Studio

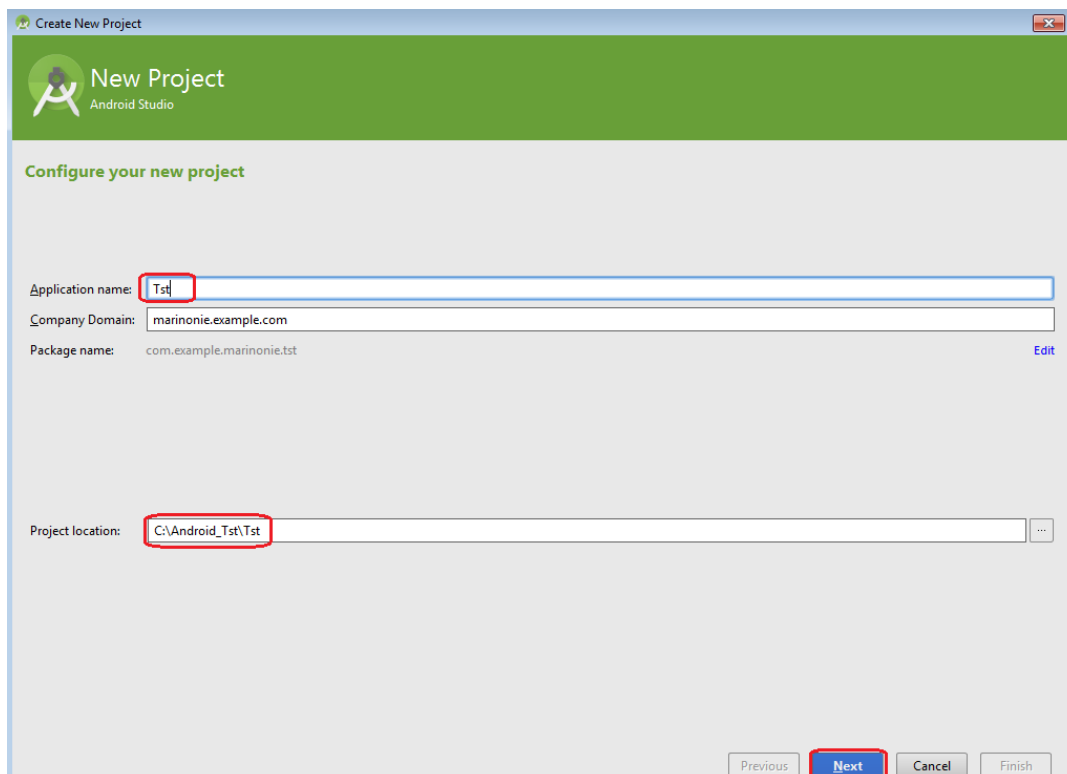
Download and install the Android Studio from [here](#).

Do a simple APP for test your Android Studio installation

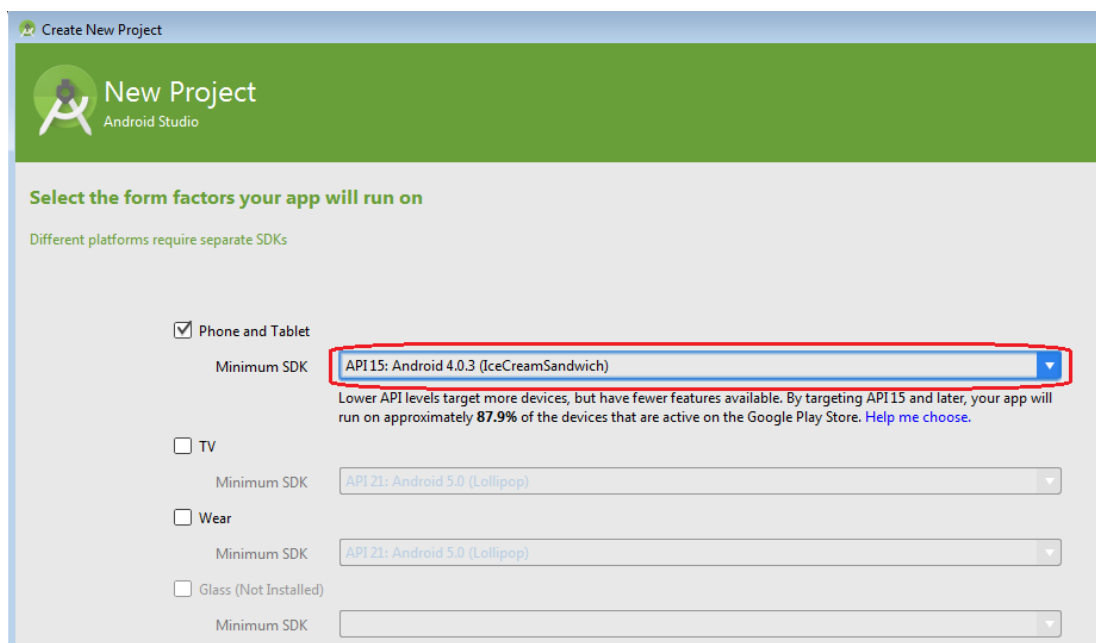
Run the Android Studio



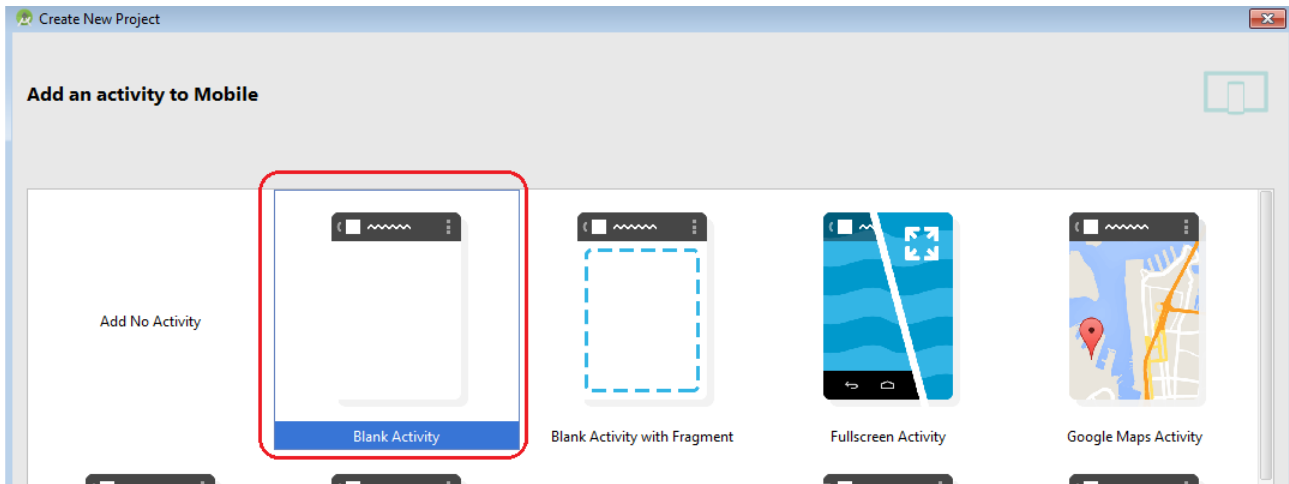
Select New Project and configure the windows that appears, see below.



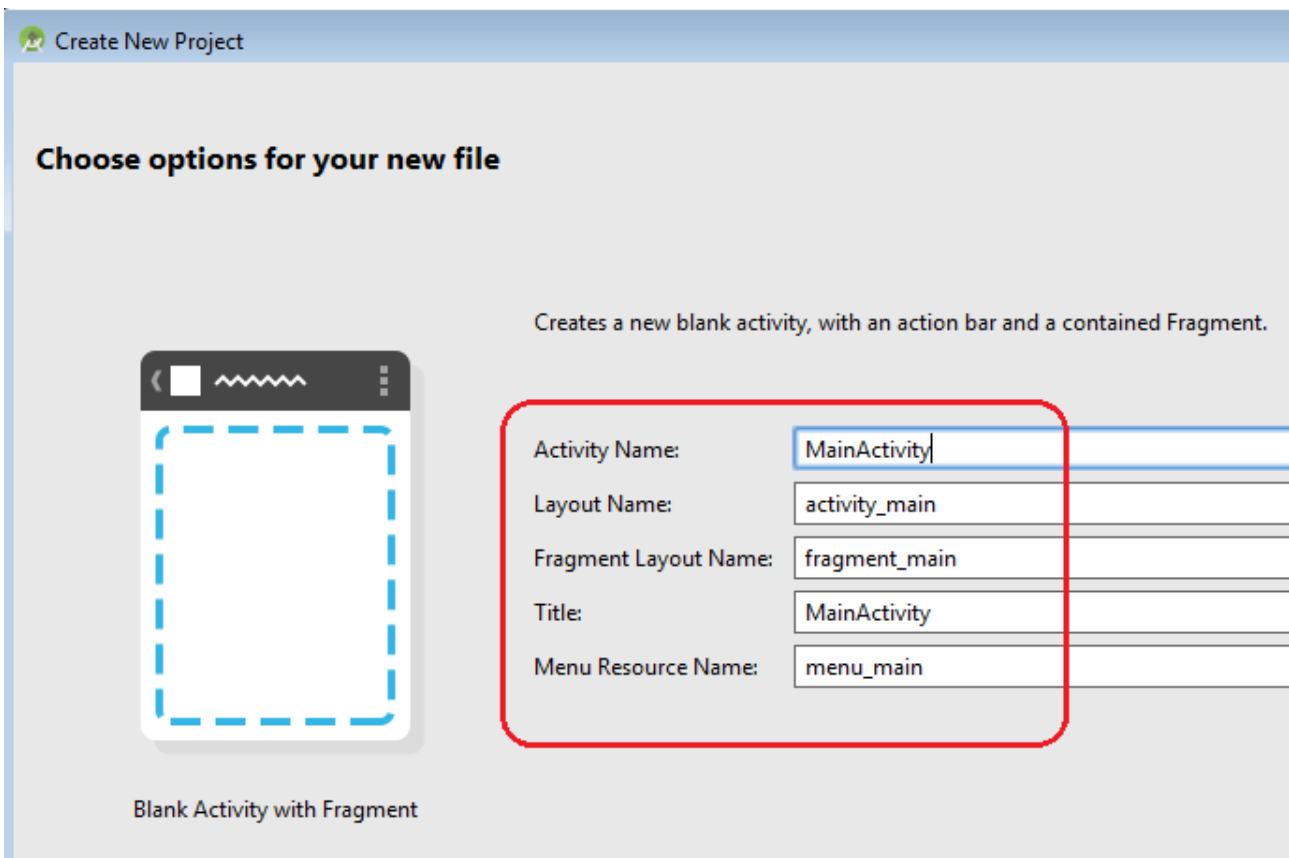
From the new window that appears you must choose the version of Android for which you want develop the APP and press NEXT, see below.



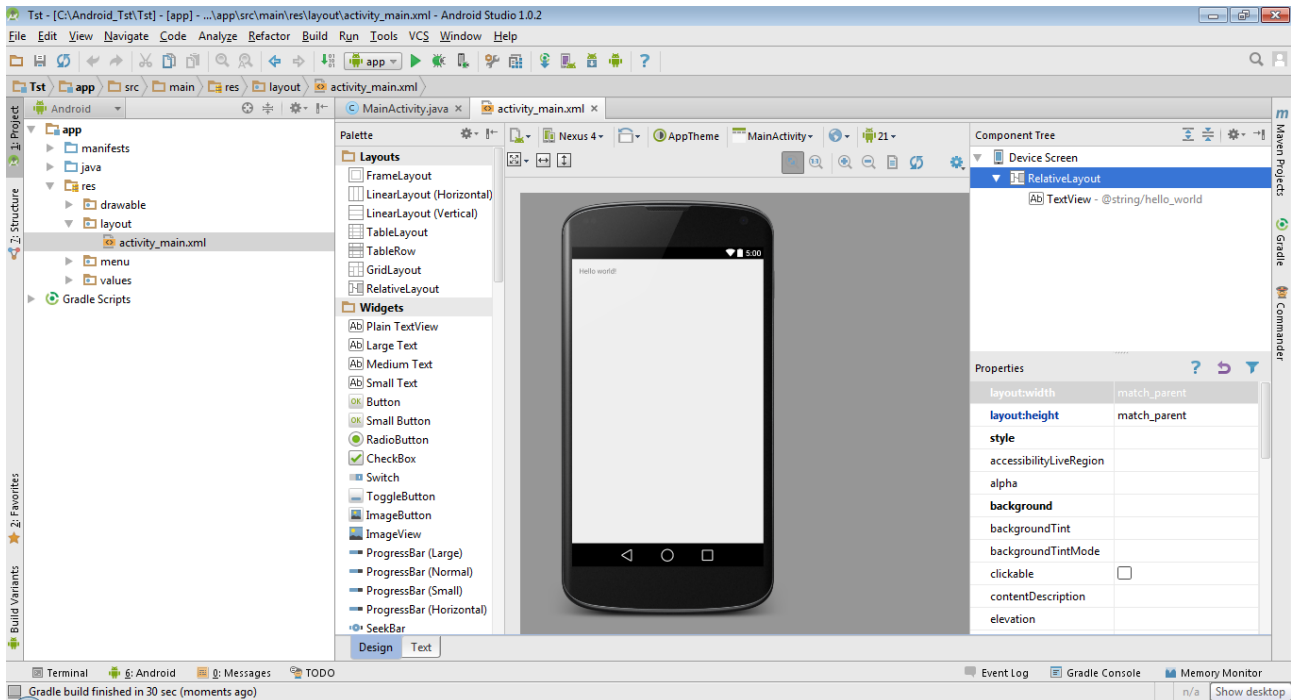
From the new window that appears select: **Blank Activity** and press NEXT, see below.



Configure the last window as show below and press FINISH.



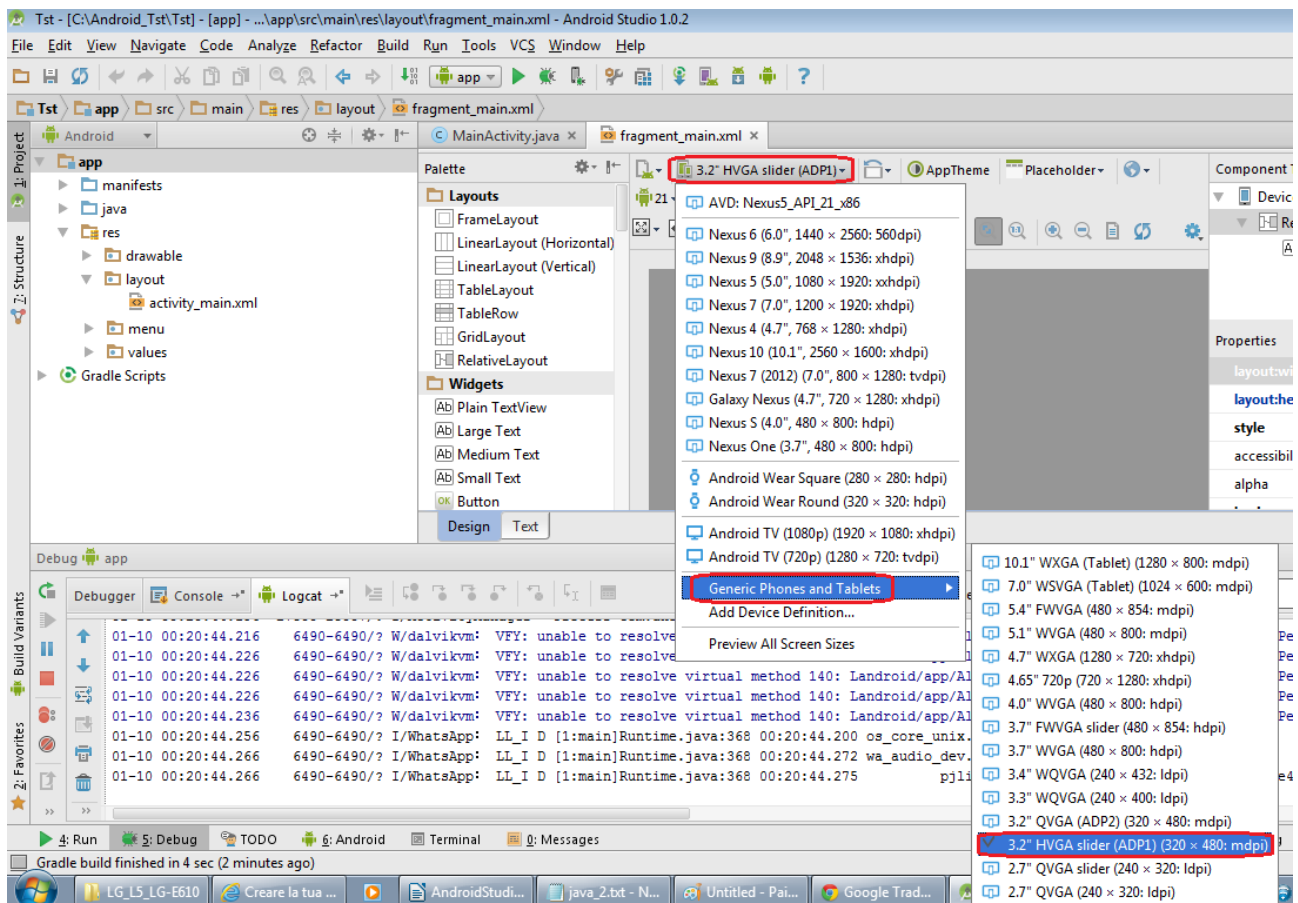
After you have pressed FINISH the Android Studio configure the environment (must be necessary a Internet connections and be patient).
At the end you must see something like below.



Select a smartphone or tablet to use in debug

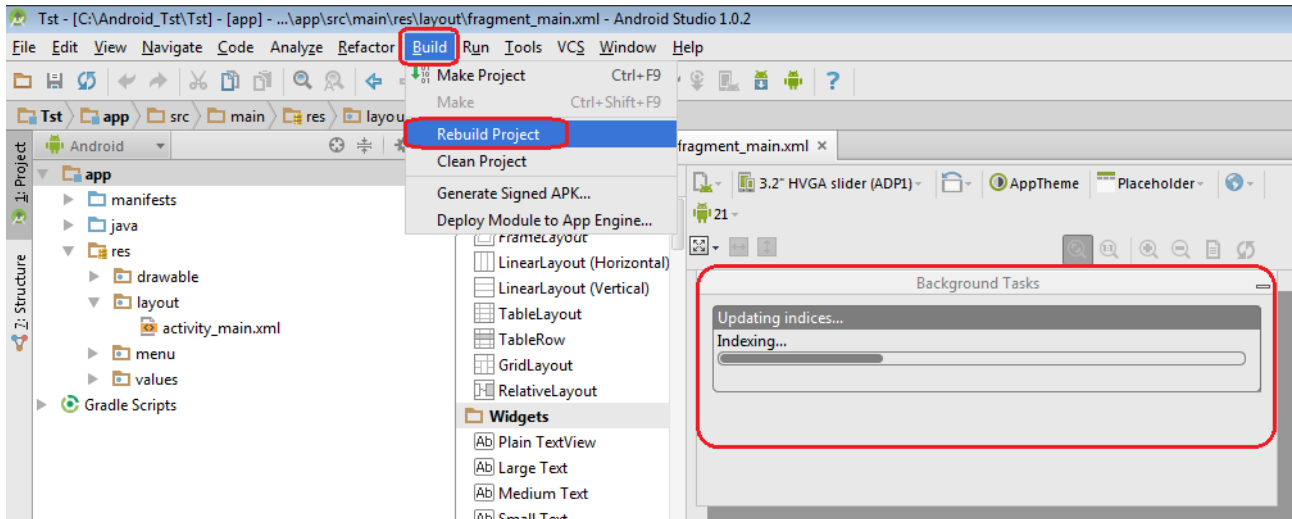
At this point you must choose the right screen resolution for your smartphone for use it in debug.

In my case, I have an LG-E610 (4", 320x480pixel, HVGA) and I choose: **HVGA slider (ADP1)(320x480; mdpi)** – see below.

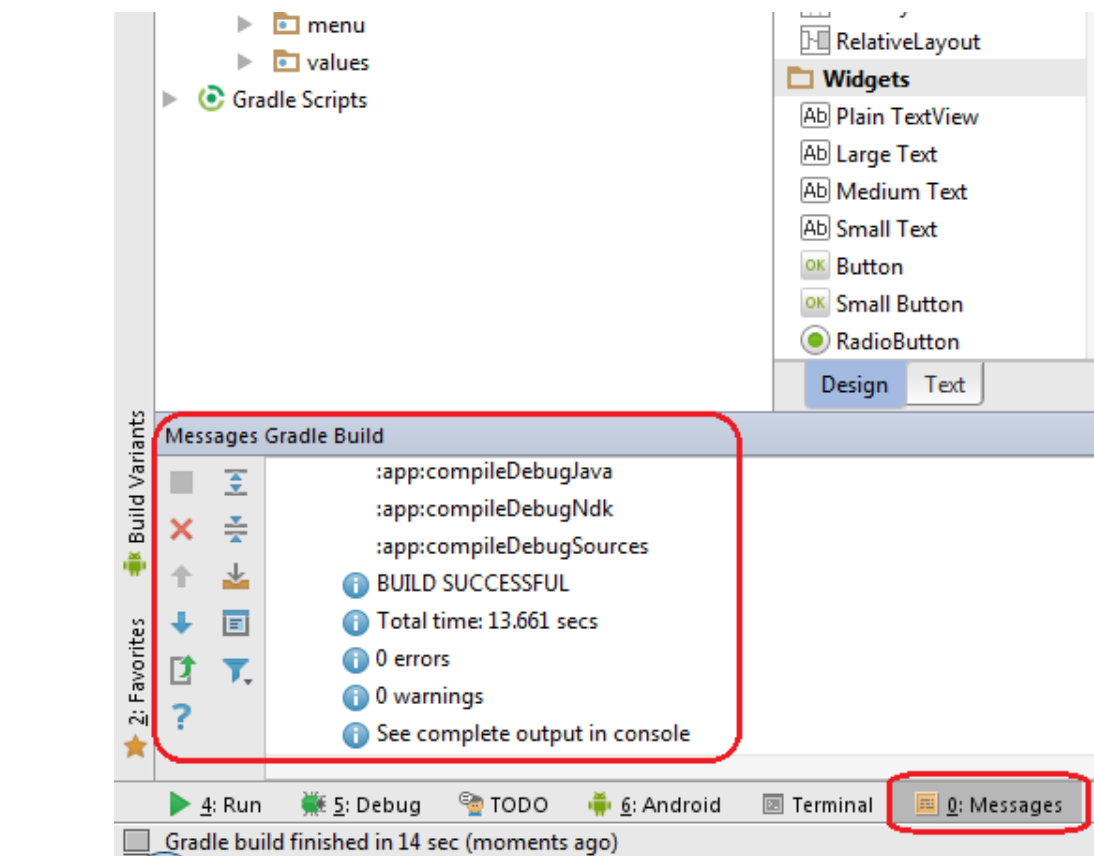


Build the project

For build the project select:
Build → **Rebuild Project**
see below



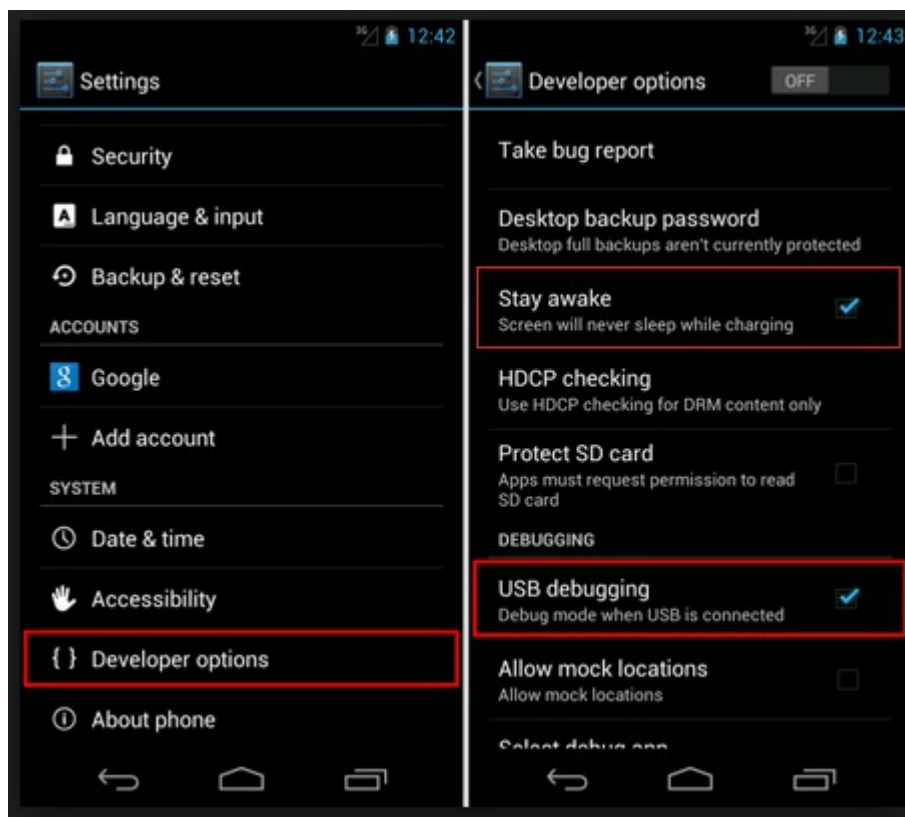
At the end of the build you must see something like below.



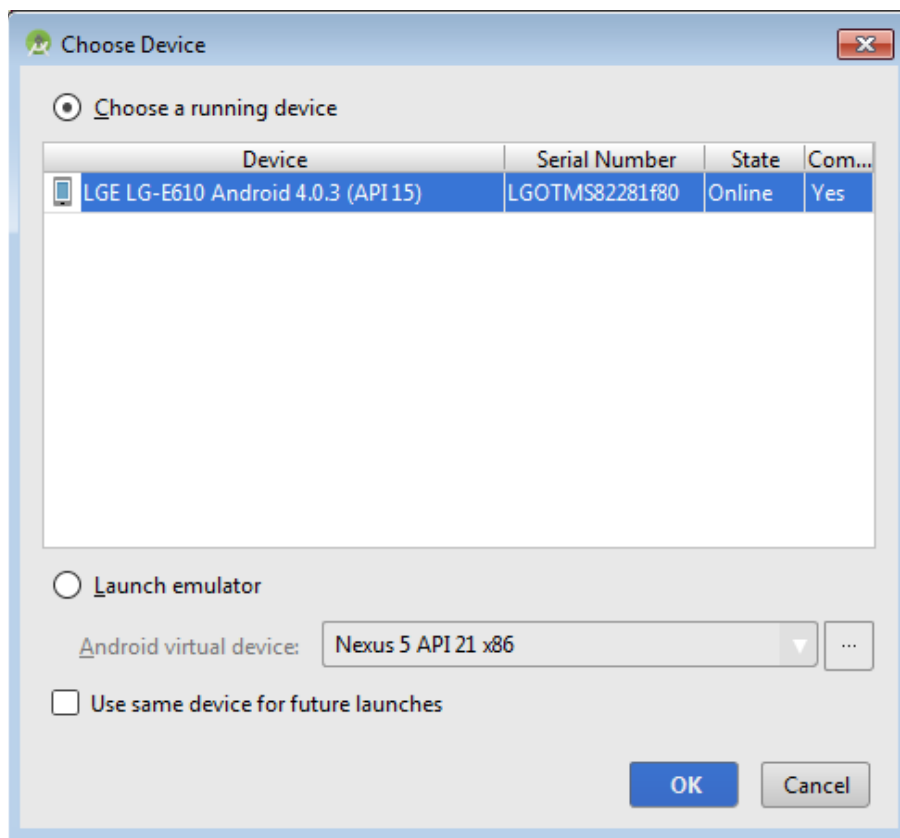
Debug project using your smartphone or tablet

Now for enter in debug, using your smartphone or tablet, do this:

- On your smartphone or tablet select:
Settings (Impostazioni (IT))
Select **Developer options** (Opzioni dello sviluppatore (IT))
Check off the USB debugging option (Debug USB (IT))
Check Stay awake (Rimani attivo (IT))
see below



- In Android Studio select: **Run** → **Debug 'app'**
after some second, appears a window where you have the possibility to select your smartphone for do the debug of your fist APP, see below.

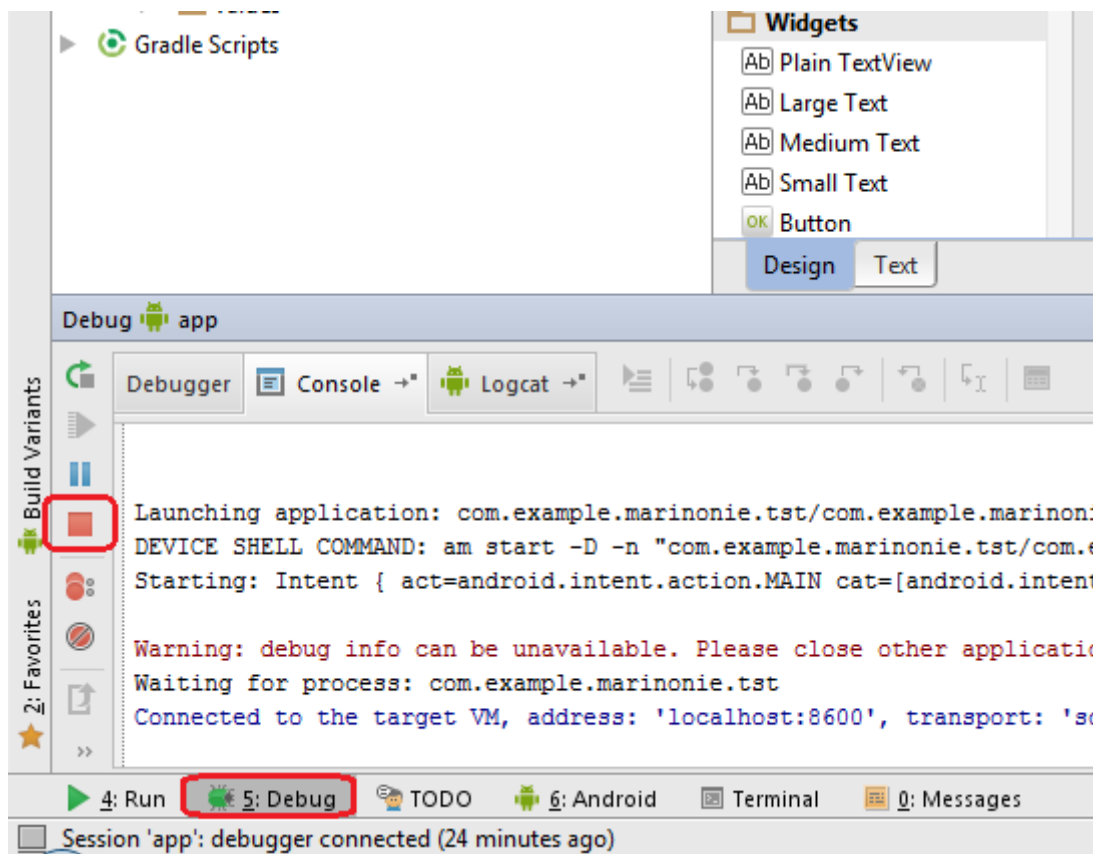


In my case I chose my LGE LG-E610... and I press OK.
After some seconds on your phone, must appear the result of your APP, see below.



End debug

For stop the debug select: **Debug** and after press the **red button** see below.



Congratulations, you have managed to create and debug your first APP. Now I recommend you thoroughly study Android Studio.