

Assignment 5

- Title: Android Studio Installation
- Problem Statement:
Install Android Studio on linux distribution & develop the android application as per the requirement.
- Objective
To learn Android Studio Installation
To learn to develop an Android application.
- Software & Hardware Req.:
Java JDK 8
android Studio
8GB RAM
i/o devices
- Theory:
Android Studio:
It is an IDE for google's Android operating system built on JetBrains's IntelliJ IDEA for android dev.
It is a strong UI tool used to develop & design UI & simulate with virtual machines. It has instant run which makes it even easier.

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Android Studio is the official IDE for google's android operating system. In the layout view you have the option to view both the actual layout and the xml at the same time when it comes to user interface android studio is much easier & quicker.

- Installation Steps

- 1) Download android studio installer from "developer.android.com" a ".tar.gz" file
- 2) Extract the file into /opt directory
- 3) Locate studio.sh file & make it executable using "sudo chmod +x studio.sh" then execute using "sudo ./studio.sh"
- 4) Now install using GUI
- 5) choose standard Installation type
- 6) Select UI type
- 7) Click "finish" button & wait for it to set-up for you.

- Creating first app:

- 1) Launch Android studio
- 2) Select "Start a new Android Studio Project"
- 3) Select "empty activity"
- 4) Choose project saving location.
- 5) You'll see the project with MainActivity.java & activitymain.xml opened.

- Setup virtual device:

- 1) Select tools → AVD Manager
- 2) Select create new virtual device
- 3) Select android device from the list
- 4) Select android system image.
- 5) Start download then press next.
- 6) launch the virtual device.
- 7) Wait for the app to run, then it will show "Hello World" on screen.

Conclusion:

In this assignment we downloaded & setup android studio in linux distribution for testing simulation using virtual devices.