

Assignment - V

Title:- Android Studio Installation.

Problem statement:- To install Android app studio on Fedora Linux & develop the android application as per requirement.

Objective:- i) To learn Android Studio Installed
ii) To learn to develop an Android application.

Outcome:- Student should be able to
i) Install the Android studio.
ii) Develop application as per requirement.

S/W & H/W:- Fedora Linux, Android Studio,
Oracle Java JDK.

Concept Related Theory:-

Android studio:- It is the official Integrated Development Environment for Google's Android Operating System. Built on JetBrains' IntelliJ Idea software & designed specifically for android development.

It is available for download on windows, mac os & linux based operating systems use of Android studio. It has a strong editor tool for developing creative UI & emulators for different versions to test & simulate sensors without having actual android devices. It also has a very useful gradle plugin using which you can create application files with different configurations moreover it makes exporting & uploading apk on playstore easy with single click.

Difference between Android Studio & Eclipse:

It supports gradle (this allows you to really have control over the build, create different application flavors, different signing configuration & so on). In the layout view you have the option to view both the actual layout & the xml at the same time. While in eclipse you must choose between two tabs.

Installation Steps:-

1) First open a shell terminal emulator window start typing 'term' on desktop (press enter to execute command).

- ii) Download Android Studio IDE for Fedora Linux.
- iii) Double click on Archive & extract into /tmp or from shell

```
wget -O /tmp/android-studio.tar.gz https://d.android.com/studio
```

• Install required packages

Type in shell

```
sudo dnf install compiz-libstdc++
```

```
296:686 compiz-libstdc++ 33:686
```

```
compiz-libstdc++ 33:2.86-64 ncurses
```

```
lib686 zlib.1626
```

```
bzip2 lib686 glibc.i686 glibc-devel.i686
```

```
libstdc++.686
```

```
zlib-devel.i686 ncurses-devel.i686 libx11
```

```
devel.i686 libxrender.i686 libxrandr.i686
```

• Install Recommended Oracle Java JDK on Linux Fedora

• After to Relocate Android Studio IDE

Set the superuser as bolden (in shell)

```
sudo chown R root:root /tmp/android-studio
```

Then switch the contents with (in shell)

```
sudo mv /tmp/android-studio/opt/
```


Finally end the `su` session (in shell)
`exit`.

- set the android SDK tools path.

Edit the `userBash` configuration file
(in shell)

`nano ~/.bashrc`

Append (in shell)

```
export PATH = $PATH:/home [user] /Android /  
SDK/tools:/home/[user]/Android/SDK/platform-  
tools/home [user] /Android/SDK/  
tools/bin.
```

load the new path simply with command
`bash`.

This setup will be useful after the first
launch of Android Studio IDE & the
installation of Android SDK tools.

- Finally to start Android Studio IDE from
shell `cd /opt/android-studio`
`bin/studio.sh`.

- quick start with Android Apps on
Android studio

Conclusion :-

Successfully install Android studio
& develop an android application.