



How to set up Flutter in Ubuntu

Flutter depends on these command-line tools being available in your environment

- `bash`
- `curl`
- `file`
- `git` 2.x
- `mkdir`
- `rm`
- `unzip`
- `which`
- `xz-utils`
- `zip`

check whether these are installed or not

if not install missing dependencies

```

vasi@vasi-Inspiron-3420:~$ which bash
/usr/bin/bash
vasi@vasi-Inspiron-3420:~$ which curl
vasi@vasi-Inspiron-3420:~$ sudo apt get update
[sudo] password for vasi:
E: Invalid operation get
vasi@vasi-Inspiron-3420:~$ sudo apt-get update
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [107 kB]
Hit:3 http://ppa.launchpad.net/deadsnakes/ppa/ubuntu focal InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu focal InRelease
Get:5 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease [111 kB]
Get:6 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease [98.3 kB]
Fetched 317 kB in 5s (58.0 kB/s)
Reading package lists... Done
vasi@vasi-Inspiron-3420:~$ sudo apt install curl
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfprint-2-tod1 libllvm9
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  curl
0 upgraded, 1 newly installed, 0 to remove and 70 not upgraded.
Need to get 161 kB of archives.
After this operation, 411 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 curl amd64 7.68.0-1ubuntu2.2 [161 kB]
Fetched 161 kB in 3s (60.5 kB/s)

```

```

vasi@vasi-Inspiron-3420:~$ which curl
/usr/bin/curl
vasi@vasi-Inspiron-3420:~$ which git
/usr/bin/git
vasi@vasi-Inspiron-3420:~$ which mkdir
/usr/bin/mkdir
vasi@vasi-Inspiron-3420:~$ which rm
/usr/bin/rm
vasi@vasi-Inspiron-3420:~$ which unzip
/usr/bin/unzip
vasi@vasi-Inspiron-3420:~$ which xz-utils
vasi@vasi-Inspiron-3420:~$ sudo apt install xz-utils
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfprint-2-tod1 libllvm9
Use 'sudo apt autoremove' to remove them.
The following packages will be upgraded:
  xz-utils
1 upgraded, 0 newly installed, 0 to remove and 69 not upgraded.
Need to get 82.5 kB of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 xz-utils amd64 5.2.4-1ubuntu1 [82.5 k
B]
Fetched 82.5 kB in 2s (33.7 kB/s)
(Reading database ... 256769 files and directories currently installed.)

```

Flutter manual installation

Download the following installation bundle to get the latest stable release of the Flutter SDK:

[flutter_linux_1.20.2-stable.tar.xz](#)

after the download process

make a new directory as your wish and extract the downloaded flutter bundle

```

vasi@vasi-Inspiron-3420:~$ cd Downloads/
vasi@vasi-Inspiron-3420:~/Downloads$ mkdir ~/sdks
vasi@vasi-Inspiron-3420:~/Downloads$ cd ~/sdks
vasi@vasi-Inspiron-3420:~/sdks$ ls
vasi@vasi-Inspiron-3420:~/sdks$ tar xf ~/Downloads/flutter_linux_1.20.2-stable.tar.xz
vasi@vasi-Inspiron-3420:~/sdks$ ls
flutter
vasi@vasi-Inspiron-3420:~/sdks$ cd flutter/
vasi@vasi-Inspiron-3420:~/sdks/flutter$ ls
analysis_options.yaml  CODEOWNERS      examples      packages
AUTHORS               CONTRIBUTING.md flutter_console.bat PATENT_GRANT
bin                  dartdoc_options.yaml flutter_root.iml  README.md
CODE_OF_CONDUCT.md   dev            LICENSE       version

```

then after you need bash scripting knowledge for add the flutter tool to your path,

its very simple just a copy paste

```

vasi@vasi-Inspiron-3420:~/sdks/flutter$ ls
analysis_options.yaml  CODEOWNERS      examples      packages
AUTHORS               CONTRIBUTING.md flutter_console.bat PATENT_GRANT
bin                  dartdoc_options.yaml flutter_root.iml  README.md
CODE_OF_CONDUCT.md   dev            LICENSE       version
vasi@vasi-Inspiron-3420:~/sdks/flutter$ cd bin/
vasi@vasi-Inspiron-3420:~/sdks/flutter/bin$ ls
cache dart dart.bat flutter flutter.bat internal
vasi@vasi-Inspiron-3420:~/sdks/flutter/bin$ pwd
/home/vasi/sdks/flutter/bin
vasi@vasi-Inspiron-3420:~/sdks/flutter/bin$ vim ~/.bashrc
vasi@vasi-Inspiron-3420:~/sdks/flutter/bin$ pwd
/home/vasi/sdks/flutter/bin
vasi@vasi-Inspiron-3420:~/sdks/flutter/bin$ vim ~/.bashrc
vasi@vasi-Inspiron-3420:~/sdks/flutter/bin$ 

```

```
export PATH="$PATH:/home/vasi/sdks/flutter/bin"
```

This command sets your PATH variable for the current terminal window only.
To permanently add Flutter to your path, see Update your path.

```
# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh" # This loads nvm
[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion"
export PATH="$PATH:/home/vasi/sdks/flutter/bin"
```

after successfully complete these steps

check whether you have installed flutter correctly

```
vasi@vasi-Inspiron-3420:~$ which flutter
/home/vasi/sdks/flutter/bin/flutter
vasi@vasi-Inspiron-3420:~$ flutter --version
Flutter 1.20.2 • channel stable • https://github.com/flutter/flutter.git
Framework • revision bbfbf1770c (3 weeks ago) • 2020-08-13 08:33:09 -0700
Engine • revision 9d5b21729f
Tools • Dart 2.9.1
```

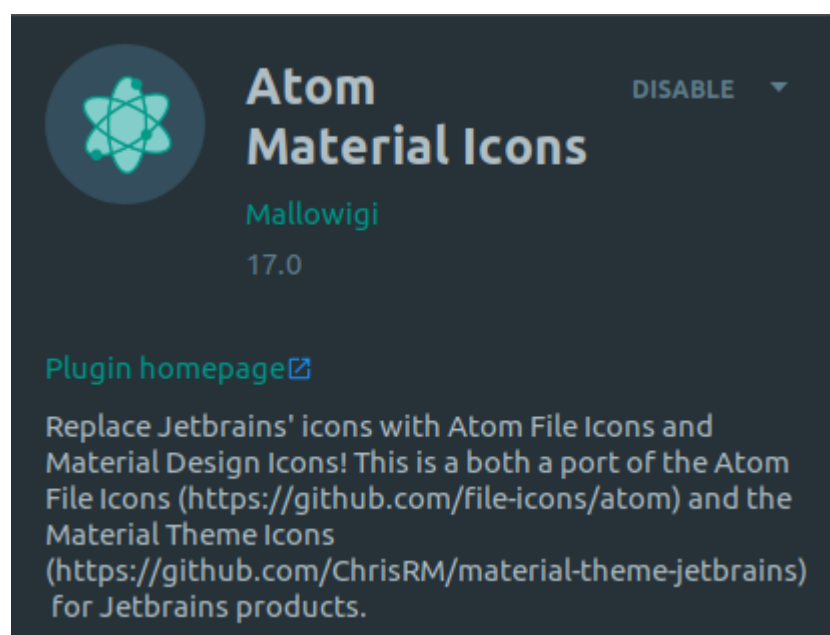
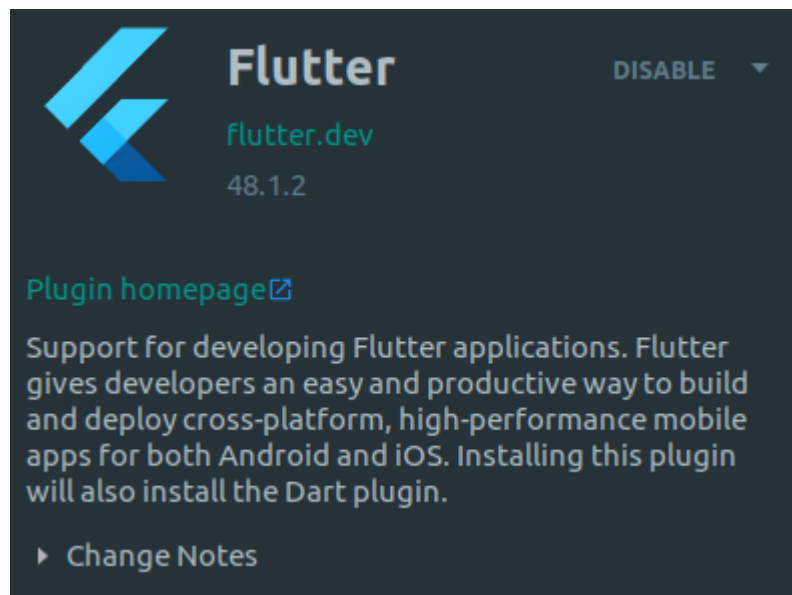
Run the following command to see if there are any dependencies you need to install to complete the setup

```
vasi@vasi-Inspiron-3420:~$ flutter precache
Downloading Android Maven dependencies...
 1139.8s (!)
vasi@vasi-Inspiron-3420:~$ flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 1.20.2, on Linux, locale en_US.UTF-8)
[!] Android toolchain - develop for Android devices (Android SDK version 29.0.2)
    x

[✓] Android Studio (version 4.0)
[✓] Connected device (1 available)
```

that's it you have successfully completed the flutter downloading and configuration setups

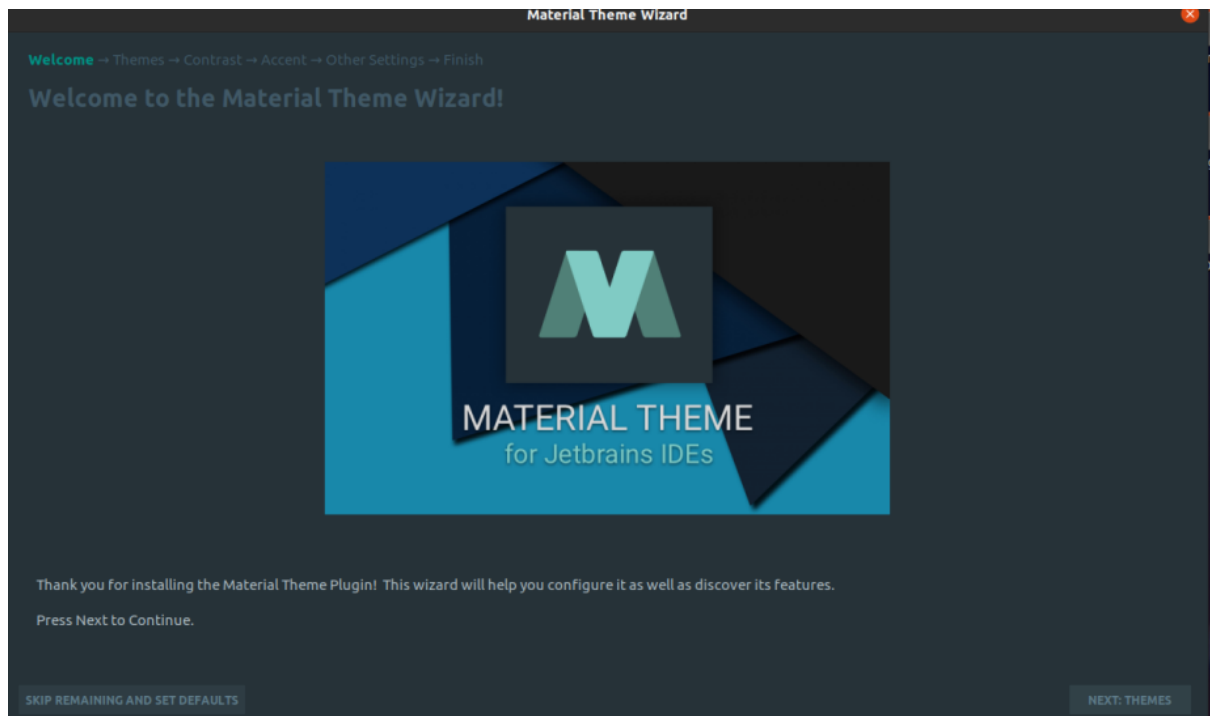
Now open your Android Studio and go to settings and install Flutter and some plugins that i recommend for you to work smart



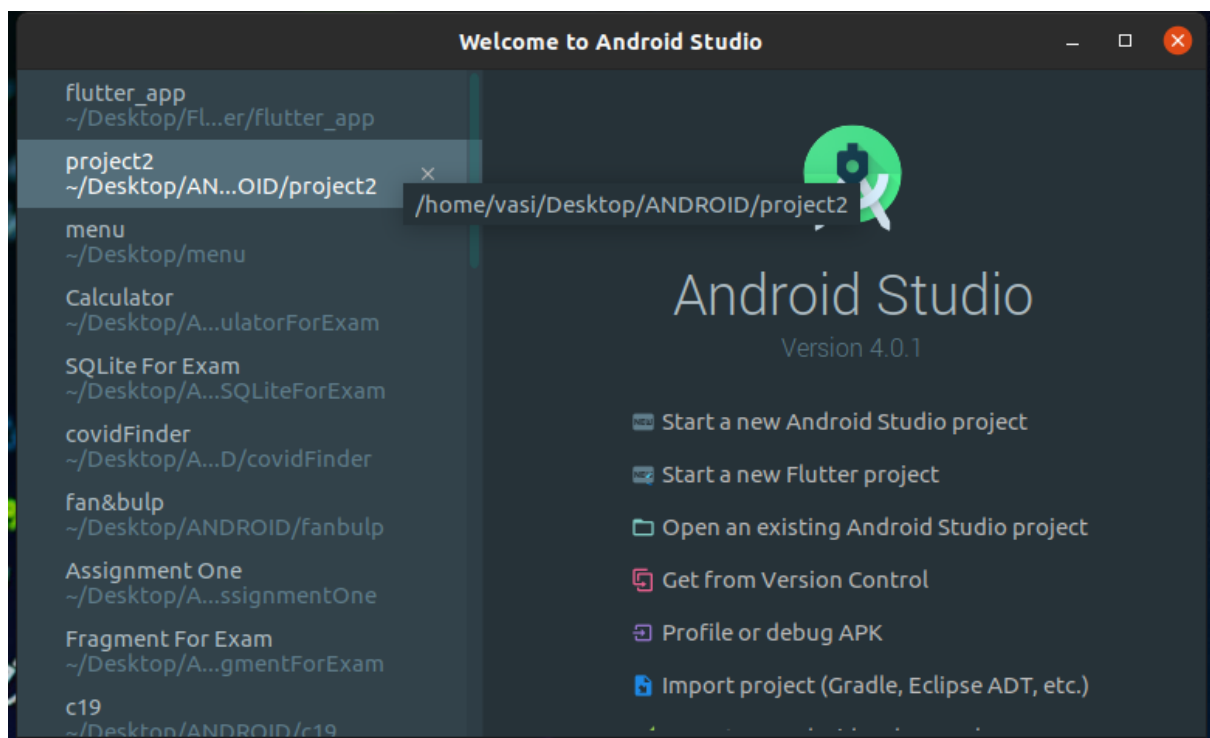


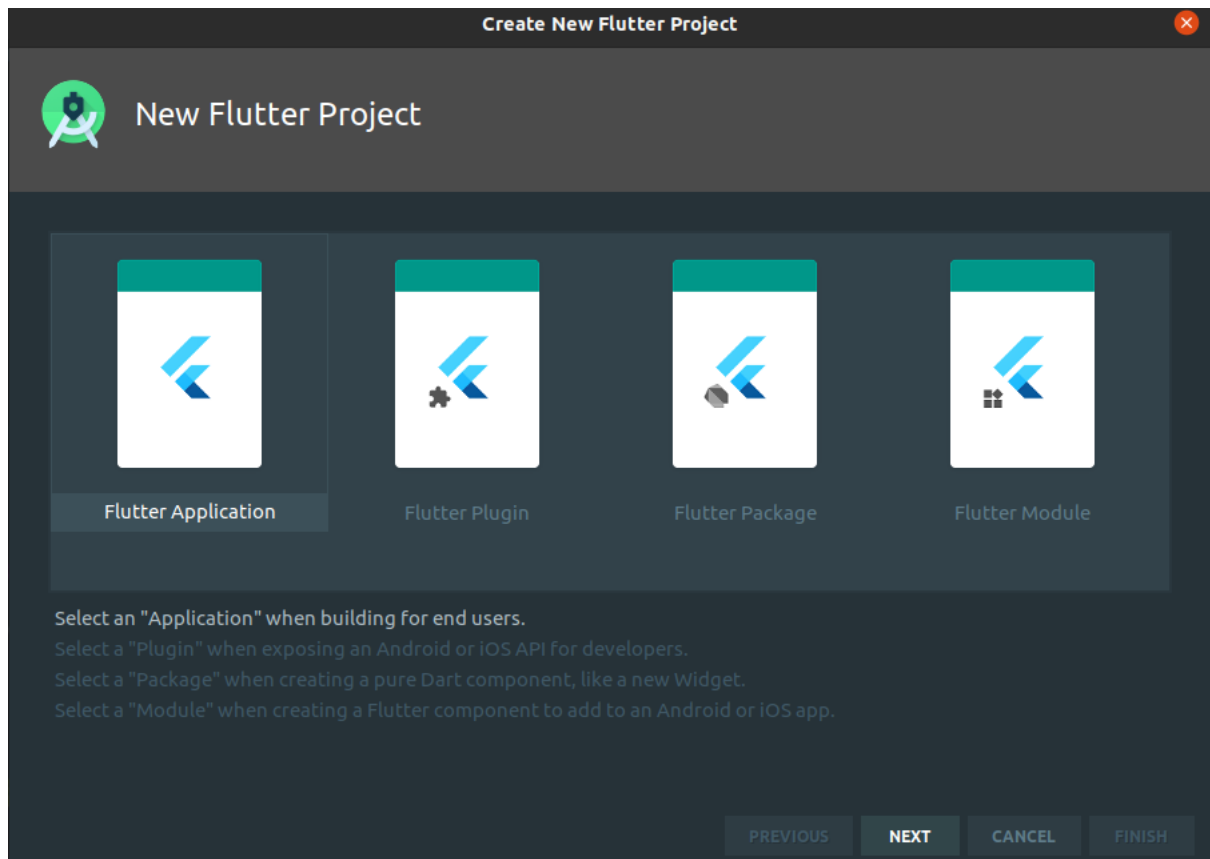
after successfully install these plugins restart your ide

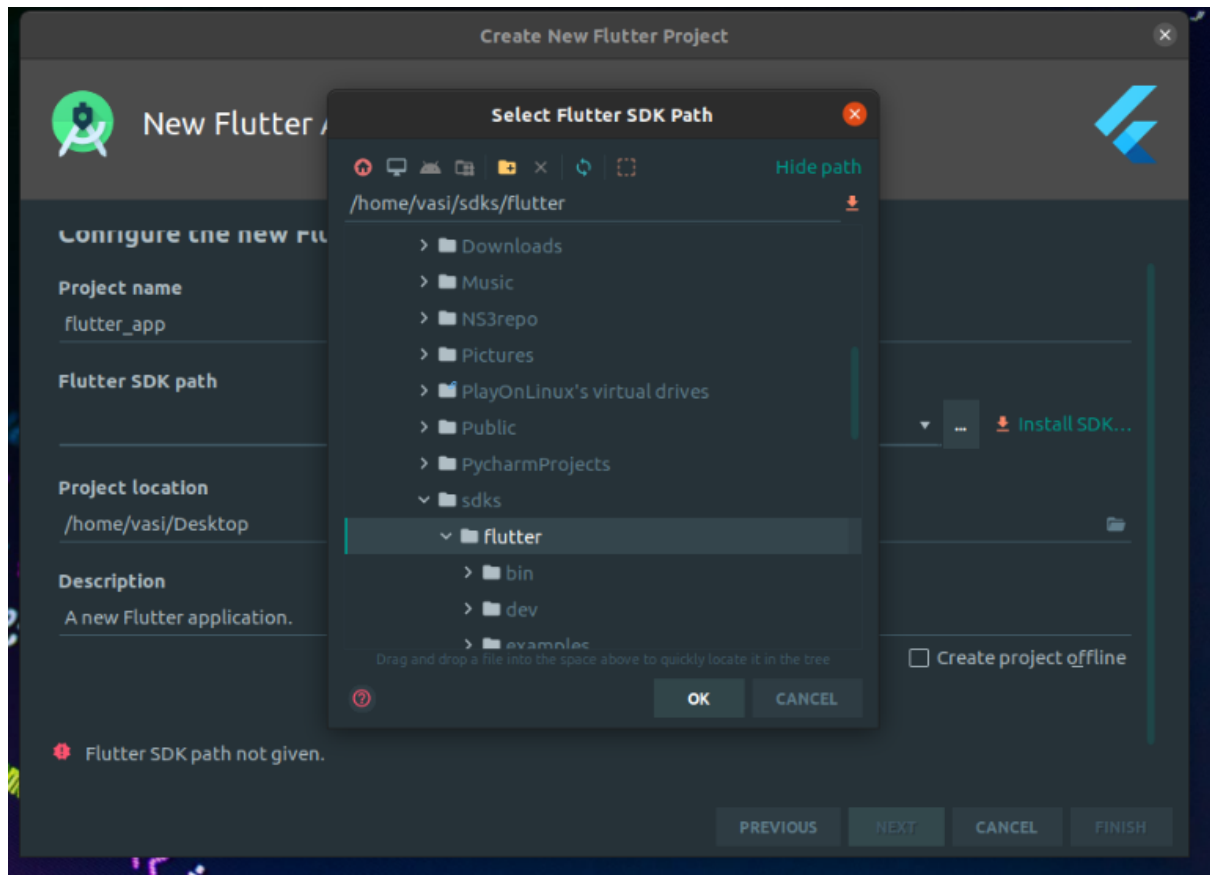
choose your favorite theme and hit next nothing need to change here



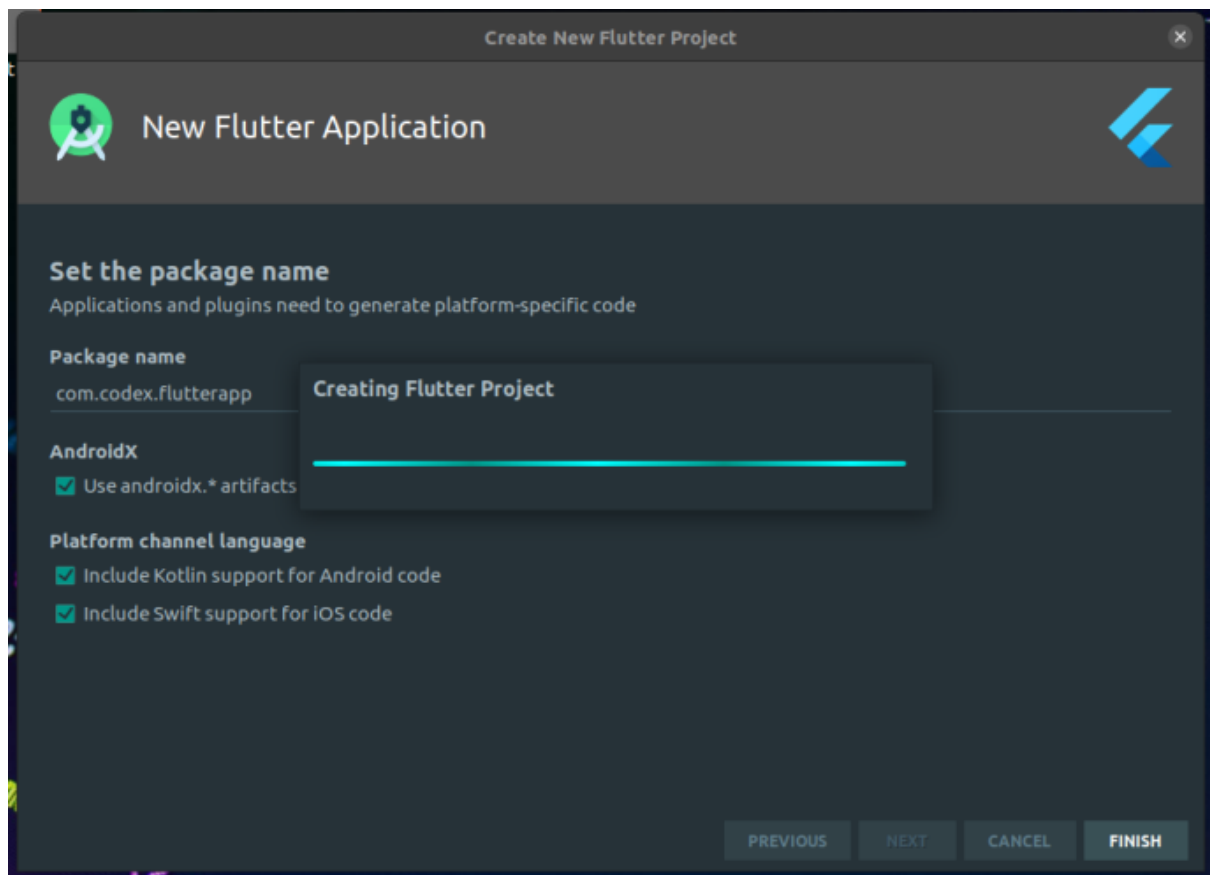
select a new flutter project and setup your SDK path and project location and hit next







choose a package name for your project



click finish to load your project

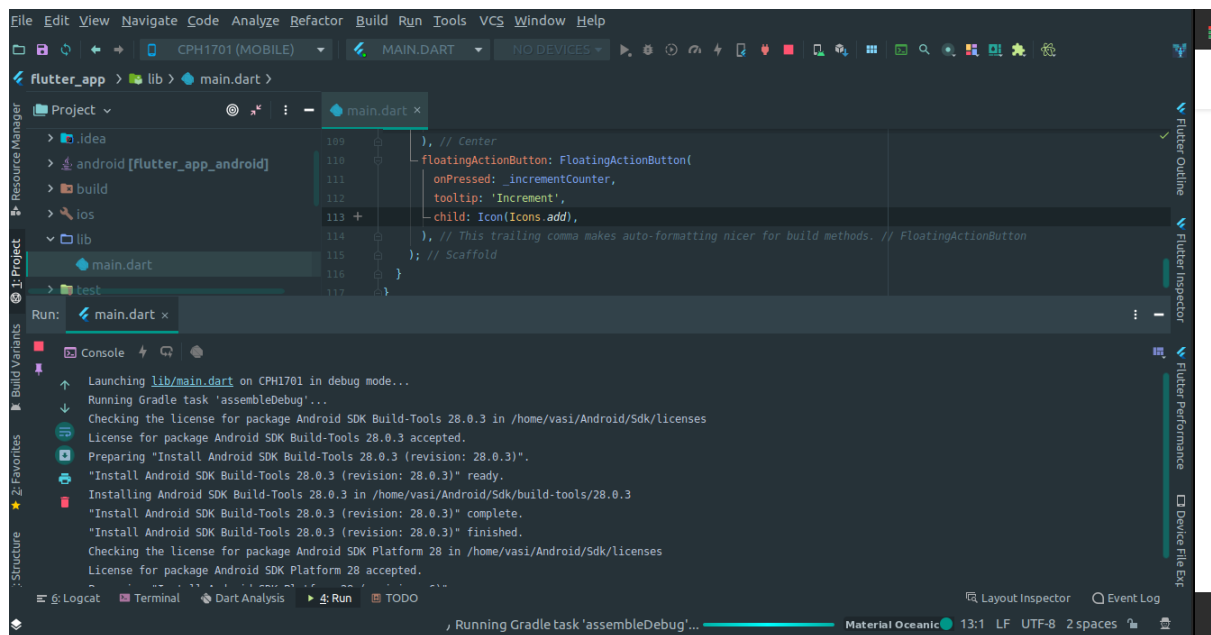
You can use your own android/ios device or virtual device for run the application that has been built

in my case i have used my own android mobile

```
vasi@vasi-Inspiron-3420:~$ which flutter dart
/home/vasi/sdks/flutter/bin/flutter
/home/vasi/sdks/flutter/bin/dart
vasi@vasi-Inspiron-3420:~$ flutter devices
1 connected device:

CPH1701 (mobile) • 5581f0ee • android-arm64 • Android 6.0.1 (API 23)
vasi@vasi-Inspiron-3420:~$
```

after successfully connected with device or emulator you can run the project



this is the result for your first hello world application in flutter

