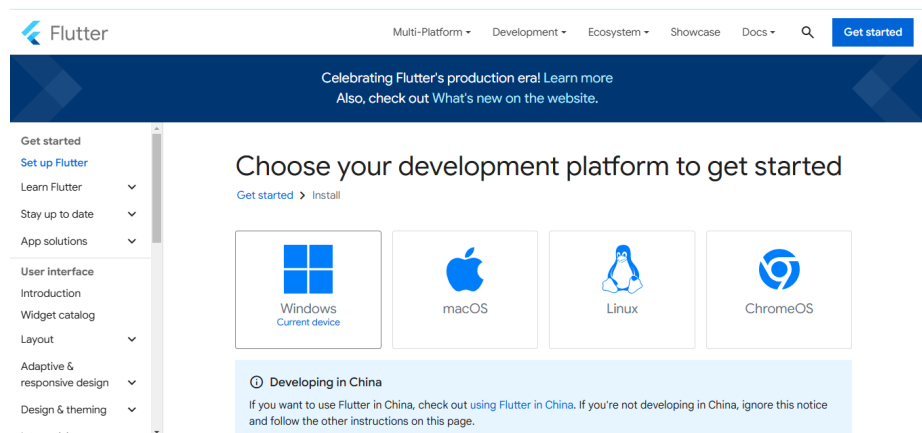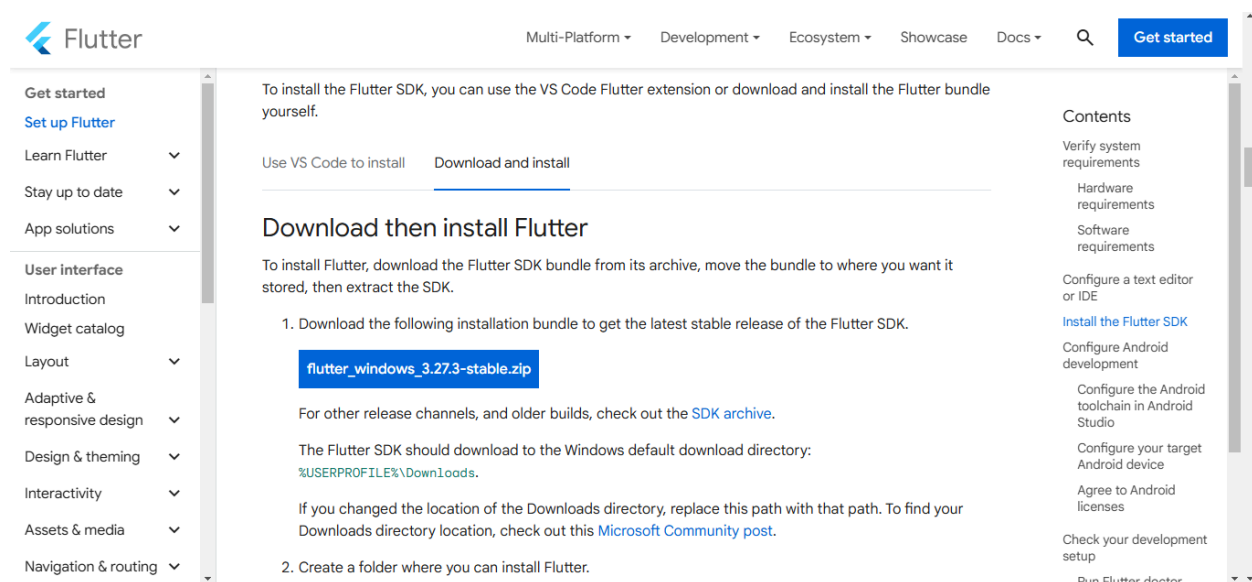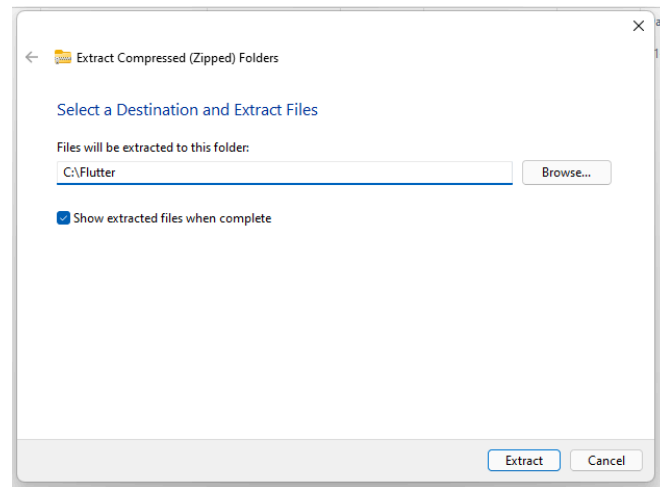Name: Roma Shirodkar
Div: D15B
Roll No: 54

MPL lab 1

Step 1: Download the installation bundle of the Flutter Software Development Kit for windows. To download Flutter SDK, Go to its official website https://docs.flutter.dev/get-started/install , you will get the following screen.

Step 2: Next, to download the latest Flutter SDK, click on the Windows icon. Here, you will find the download link for SDK.
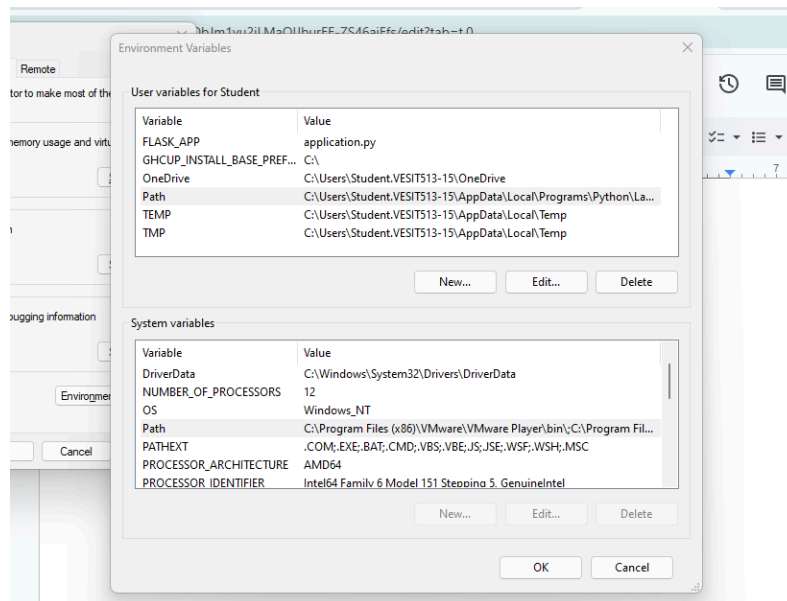
Step 3: When your download is complete, extract the zip file and place it in the desired installation folder or location, for example, C: /Flutter.
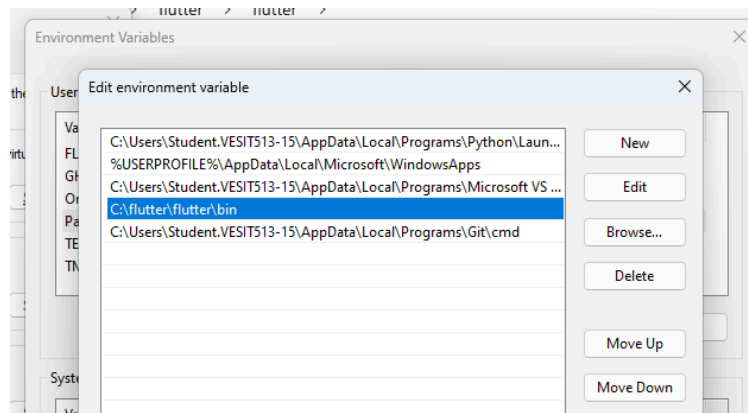

Step 4: To run the Flutter command in regular windows console, you need to update the system path to include the flutter bin directory.

Go to Properties -> advanced -> environment variables

Select Path and edit. Paste the following "C:\flutter\flutter\bin"

Step 5: Now, run the $ flutter command in command prompt.


```
C:\Users\Student.VESIT513-15>flutter

 A new version of Flutter is available!

 To update to the latest version, run "flutter upgrade".

Manage your Flutter app development.

Common commands:

  flutter create <output directory>
    Create a new Flutter project in the specified directory.

  flutter run [options]
    Run your Flutter application on an attached device or in an emulator.
```
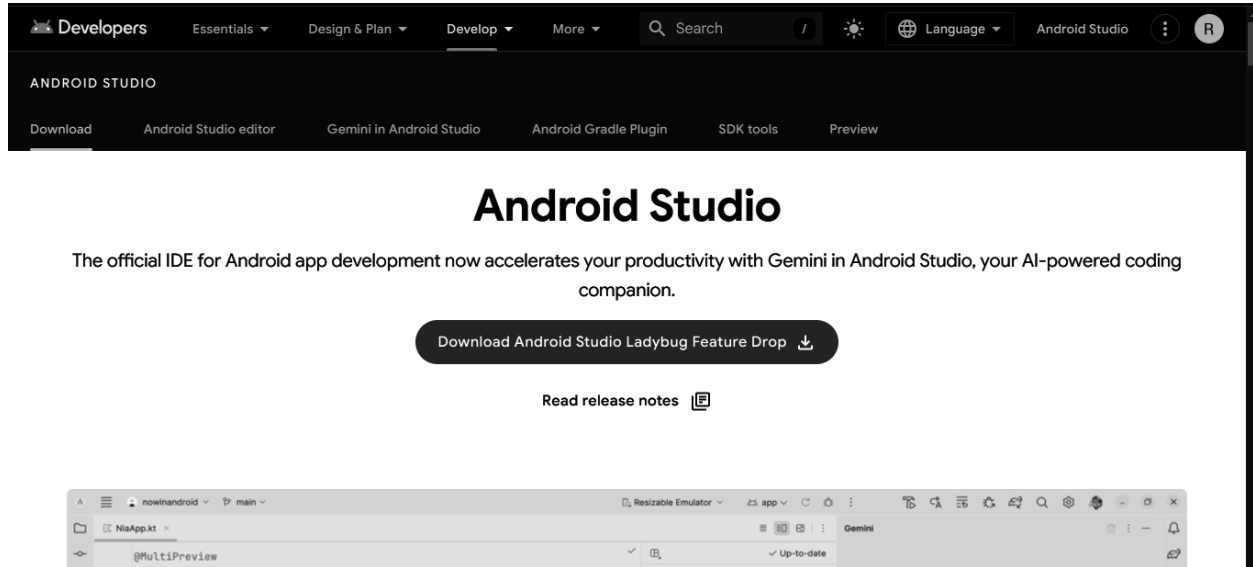
Step 6: Now, run the $ flutter doctor command. This command checks for all the requirements of Flutter app development and displays a report of the status of your Flutter installation.
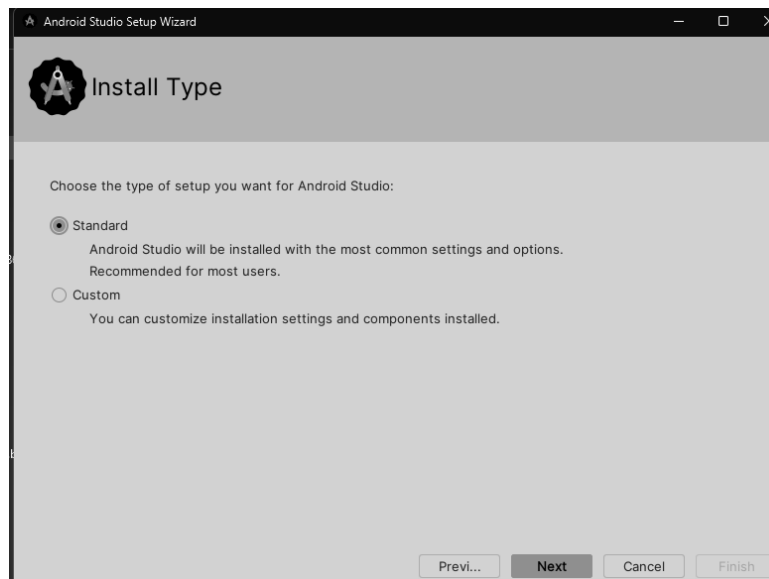


```
Run "flutter help -v" for verbose help output, including less commonly used options.

C:\Users\Student.VESIT513-15>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[√] Flutter (Channel stable, 3.16.9, on Microsoft Windows [Version 10.0.22631.4751], locale en-IN)
[√] Windows Version (Installed version of Windows is version 10 or higher)
[X] Android toolchain - develop for Android devices
    X Unable to locate Android SDK.
      Install Android Studio from: https://developer.android.com/studio/index.html
      On first launch it will assist you in installing the Android SDK components.
      (or visit https://flutter.dev/docs/get-started/install/windows#android-setup for detailed instructions).
      If the Android SDK has been installed to a custom location, please use
      `flutter config --android-sdk` to update to that location.

[√] Chrome - develop for the web
[!] Visual Studio - develop Windows apps (Visual Studio Community 2022 17.3.1)
    X Visual Studio is missing necessary components. Please re-run the Visual Studio installer for the "Desktop
      development with C++" workload, and include these components:
        MSVC v142 - VS 2019 C++ x64/x86 build tools
        - If there are multiple build tool versions available, install the latest
        C++ CMake tools for Windows
        Windows 10 SDK
[√] Android Studio (version 2023.1)
[√] VS Code, 64-bit edition (version 1.85.1)
```
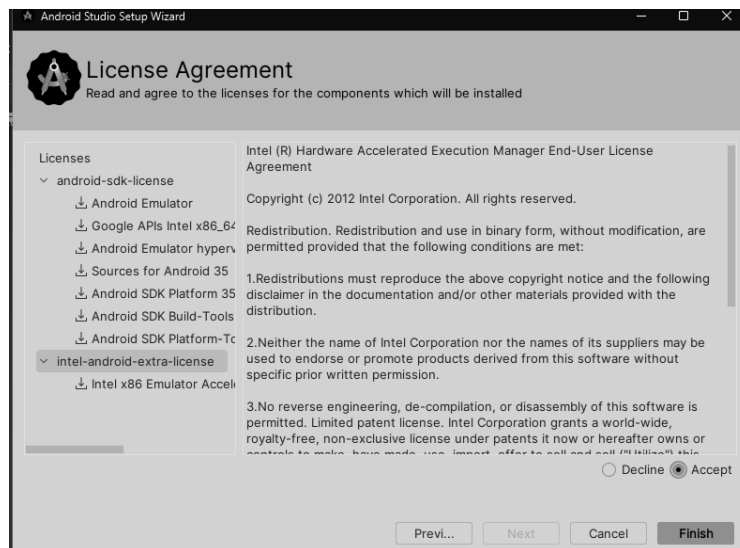
Step 7: Install the Android SDK. If the flutter doctor command does not find the Android SDK tool in your system, then you need first to install the Android Studio IDE. To install Android Studio IDE
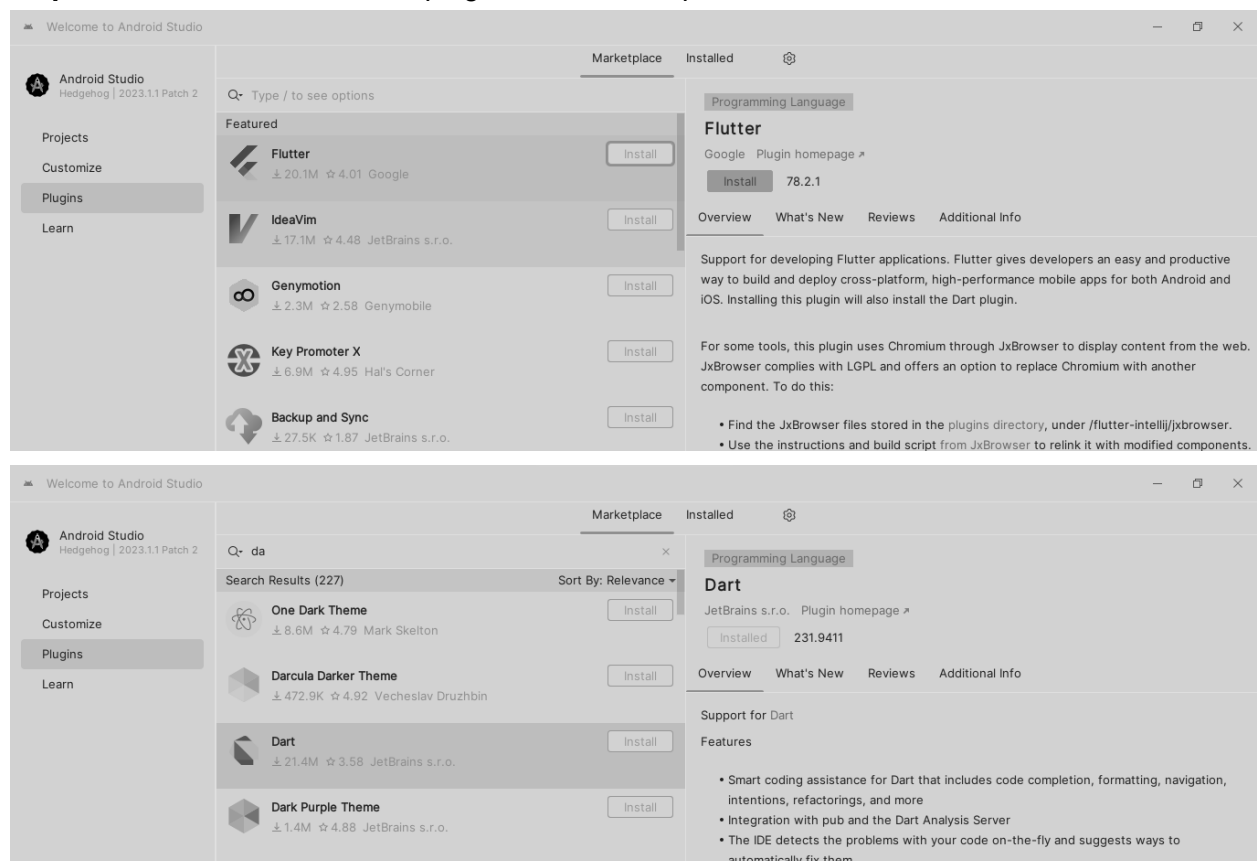

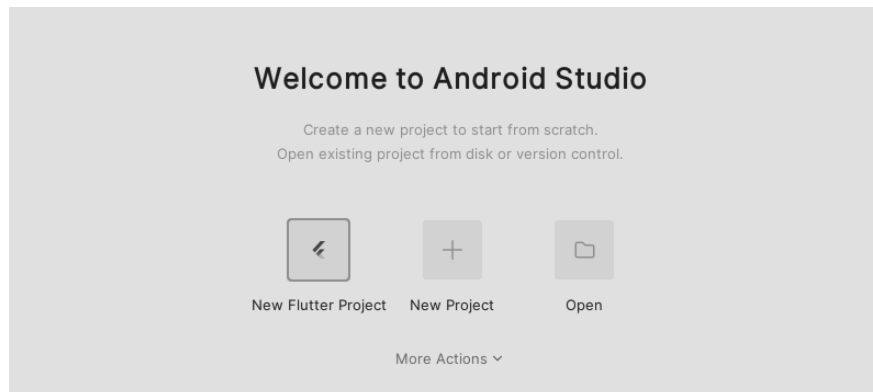**Step 8**: After opening the installer you will see the following. Select standard and click next
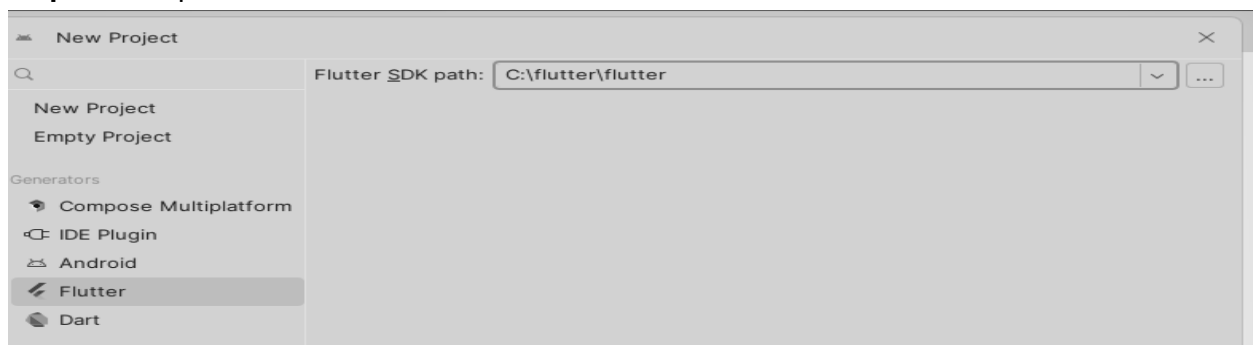
Step 9: Accept all and finish the installation.

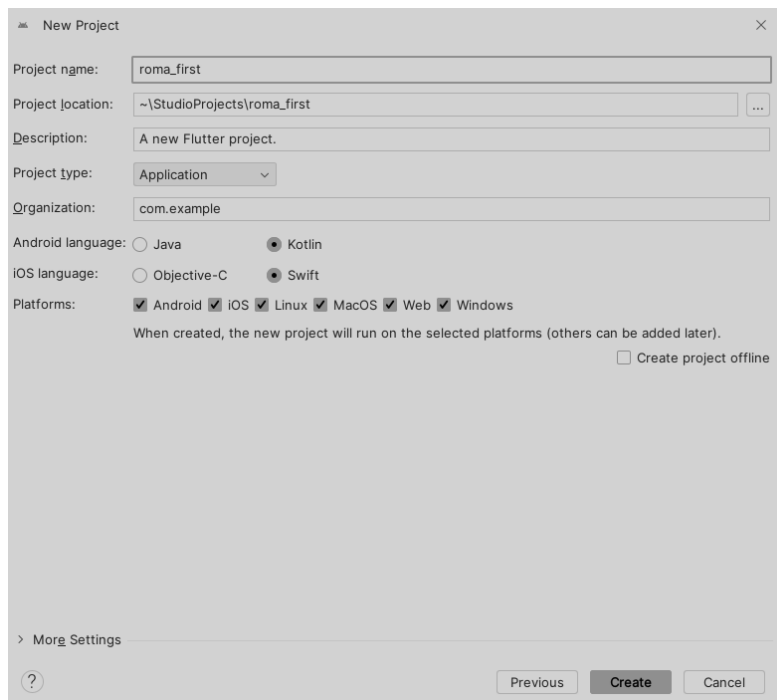**Step 10:** Install Flutter and Dart plugins from Marketplace.

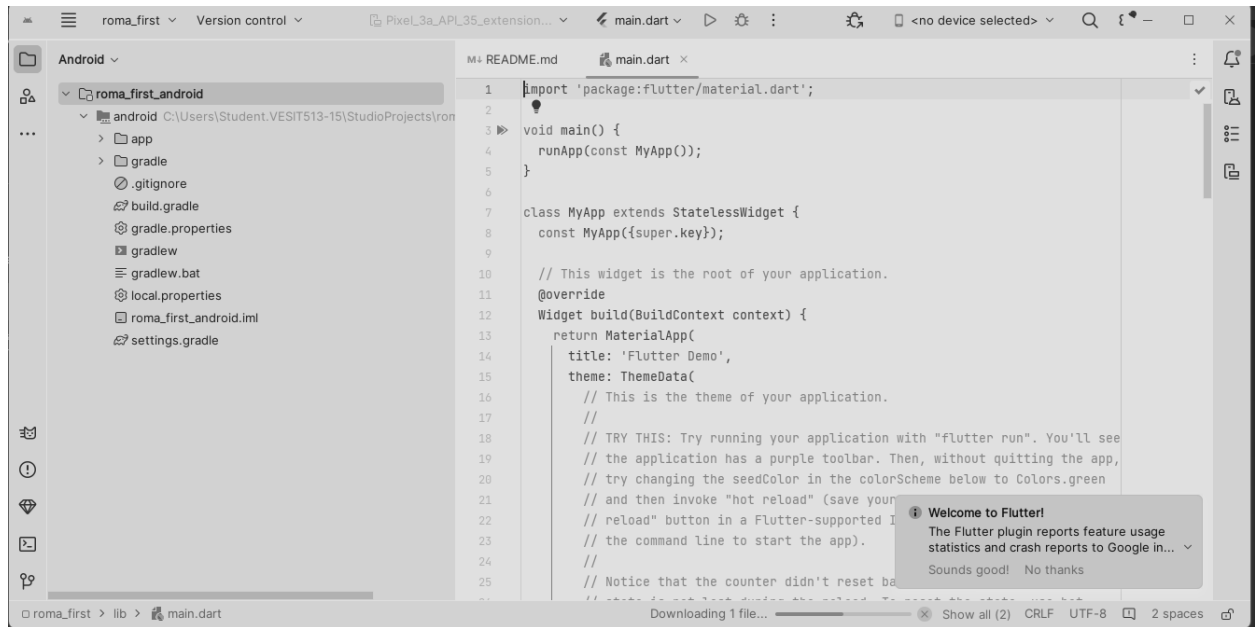**Step 11:** Click on New Flutter Project.

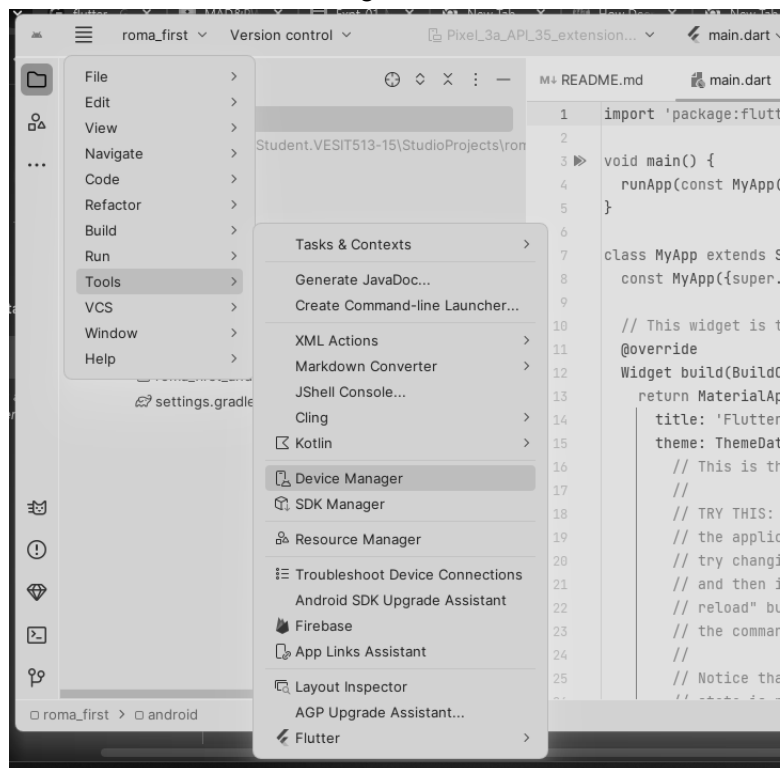**Step 12:** Set path C:\flutter\flutter

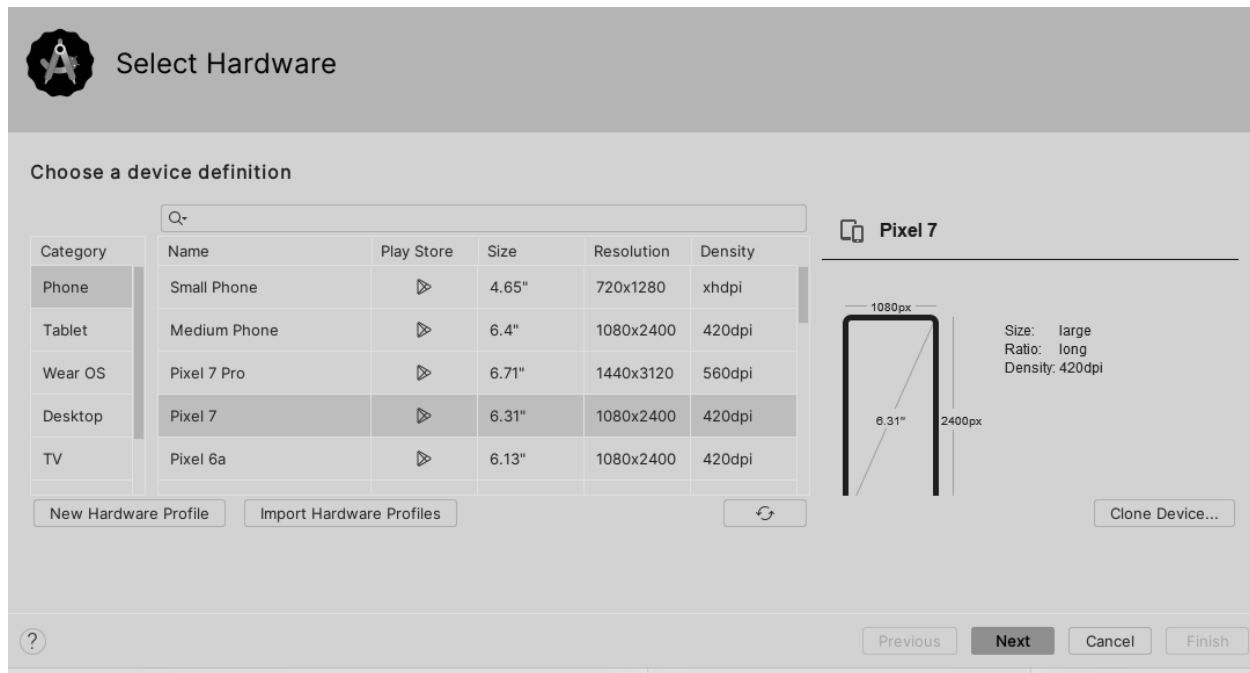**Step 13:** Enter a name for project and click on create.

You will see the following

Step 14: Go to Menu > Tools > Device Manager

Step 15: Choose your device on which you want to run your project and click Next.

Step 16: Click on play button in the toolbar above and you will see the emulator starting. It will take time to load for the first time.