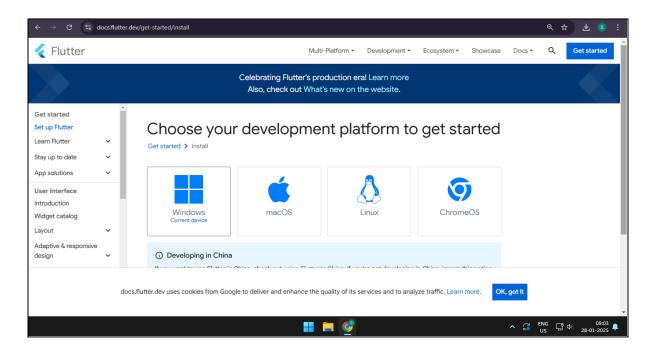
EXPERIMENT NO: 1

NAME: SHRAVANI S RASAM

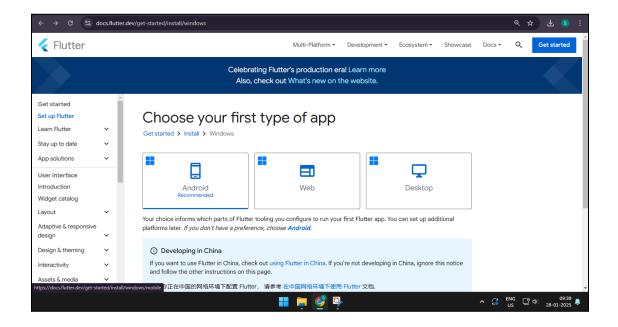
CLASS: D15A ROLL NO: 45

AIM: - Installation and Configuration of Flutter Environment.

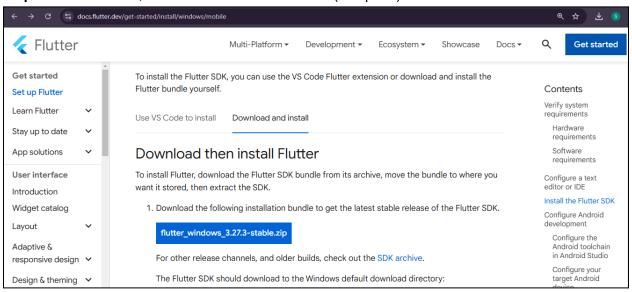
Step 1: Go to the official Flutter website: https://docs.flutter.dev/get-started/install



Step 2: To download the latest Flutter SDK, click on the Windows icon > Android



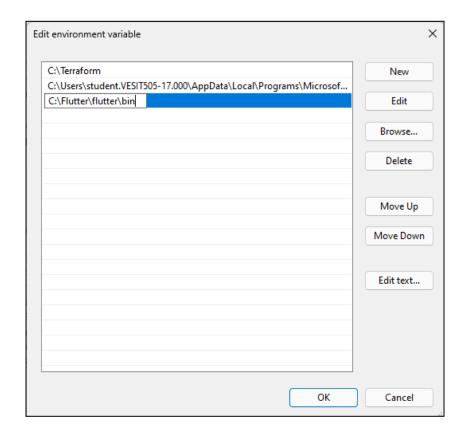
Step 3: For Windows, download the stable release (a .zip file).



Step 5 :- Add Flutter to System PATH

Right-click on the Start Menu > System > Advanced system settings > Environment Variables. Under System Variables, find Path and click Edit.

Add the full path to the flutter/bin directory (e.g., C:\flutter\bin).



Step 6: - Now, run the \$ flutter command in command prompt

```
Command Prompt - flutte ×
C:\Users\Shravani>flutter
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.
Usage: flutter <command> [arguments]
Global options:
-h, --help
-v, --verbose
                               Print this usage information.
                               Noisy logging, including all shell commands executed.
If used with "--help", shows hidden options. If used with
 "flutter doctor", shows additional
                               diagnostic information. (Use "-vv" to force verbose loggi
ng in those cases.)
-d, --device-id
                               Target device id or name (prefixes allowed).
    --version
                               Reports the version of this tool.
    --enable-analytics
                               Enable telemetry reporting each time a flutter or dart co
```

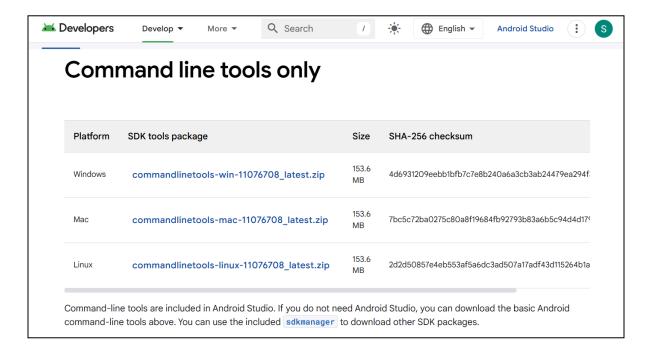
Step 7:- Run the \$ flutter doctor command. This command checks for all the requirements of Flutter app development and displays a report of the status of your Flutter installation

```
Command Prompt - flutte × + v
C:\Users\Shravani>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[/] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.22631.4751],
      locale en-IN)
     Windows Version (Installed version of Windows is version 10 or higher)
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/to/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
      X Visual Studio not installed; this is necessary to develop Windows apps.
        Download at https://visualstudio.microsoft.com/downloads/.
Please install the "Desktop development with C++" workload, including all of
        its default components
     Android Studio (not installed)
VS Code (version 1.96.4)
     Connected device (3 available)
     Network resources
  Doctor found issues in 3 categories.
```

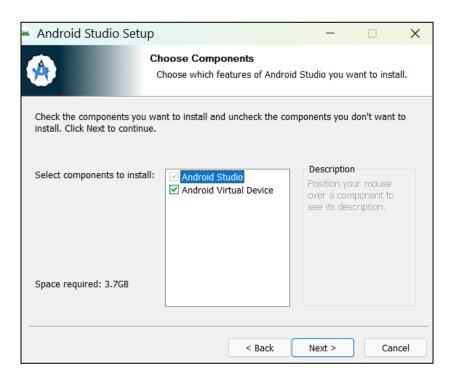
Step 8: - Go to Android Studio and download the installer



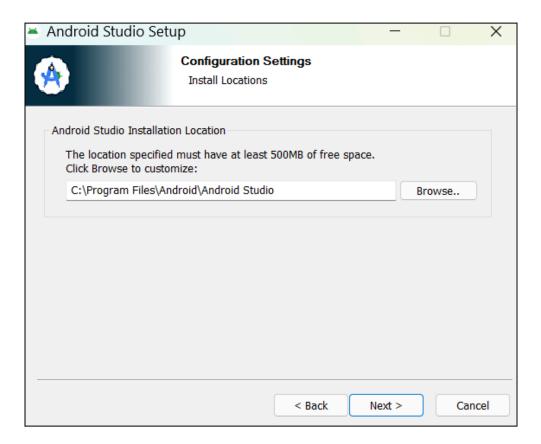
Step 8.1: - When the download is complete, open the .exe file and run it. You will get the following dialog box



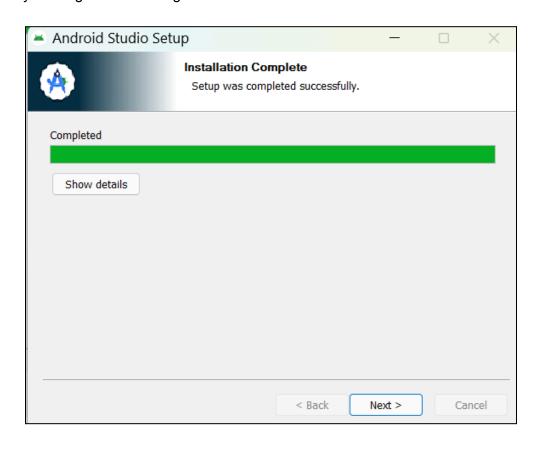
Step 8.2: - Select all the Checkboxes and Click on 'Next' Button.

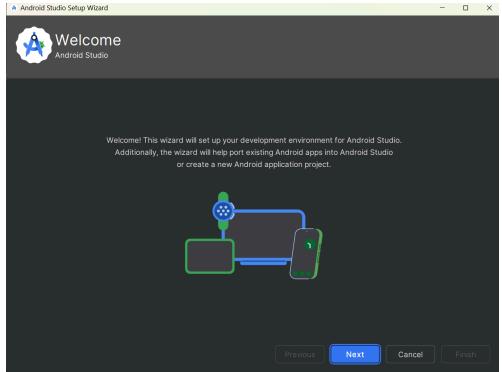


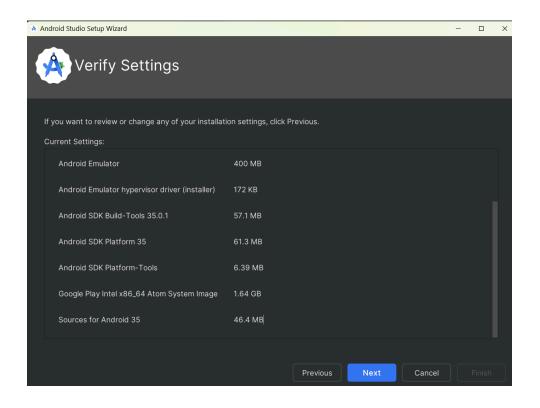
Step 8.3: - Change the destination as per your convenience and click on 'Next' Button.

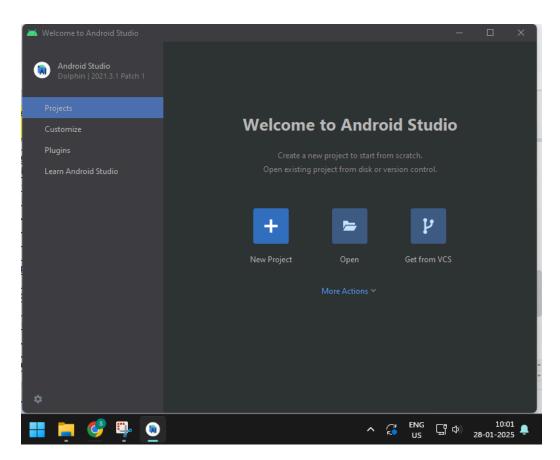


Step 8.4: - Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.

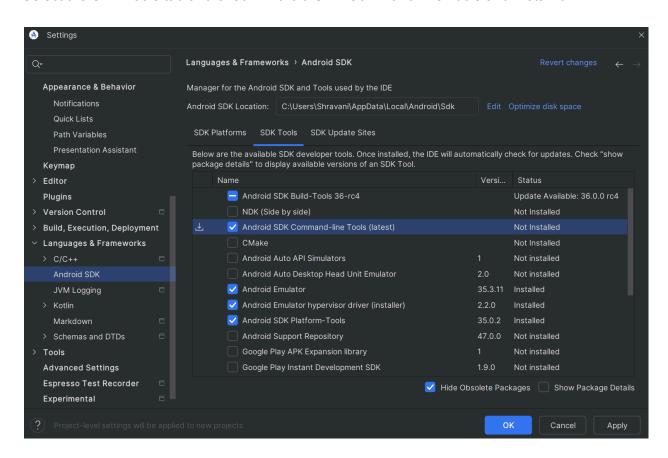




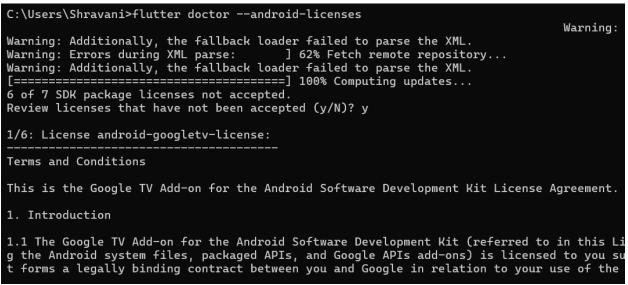




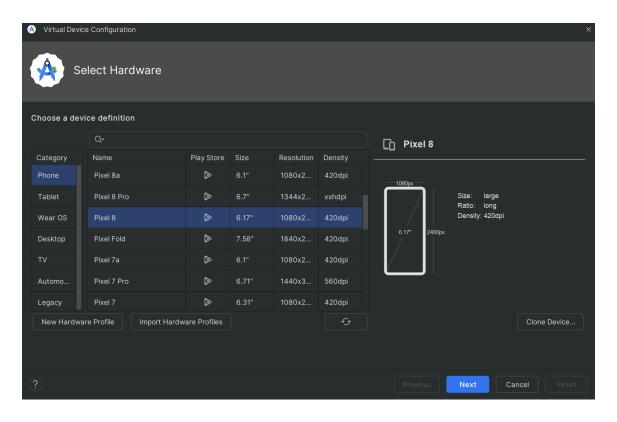
Step 8.5: - Go to Preferences > Appearance & Behavior > System Settings > Android SDK. Select the SDK Tools tab and check Android SDK Command-line Tools and Install it.



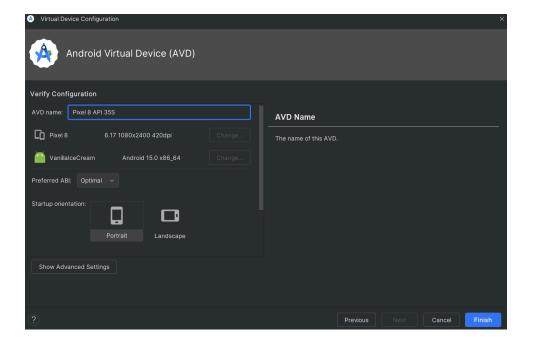
Step 9: - Open a terminal and run the following command



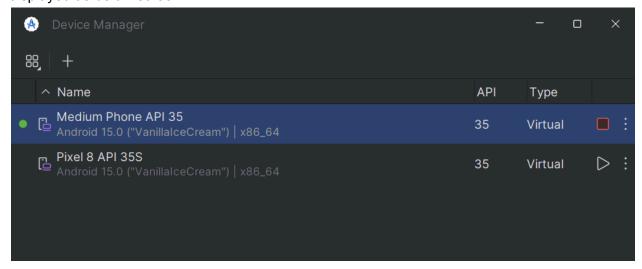
Step 10: - Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application

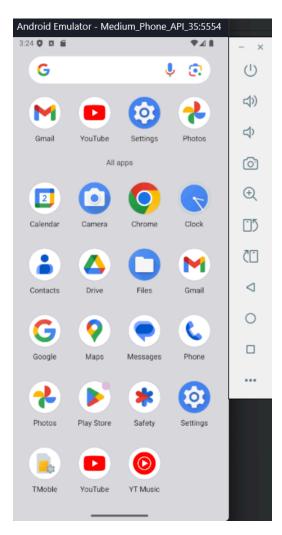


Step 10.1: - Open Android Studio and go to Tools > AVD Manager. Create a new virtual device

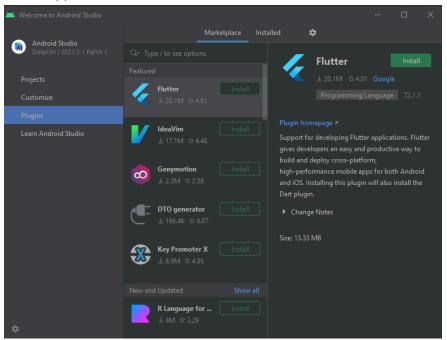


Step 10.2: - Click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen

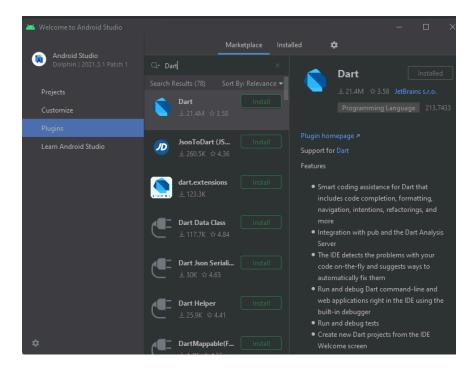




Step 11: - Now, install Flutter and Dart plugin for building Flutter application in Android Studio. These plugins provide a template to create a Flutter application, give an option to run and debug Flutter application in the Android Studio itself



Step 11.1: - Open the Android Studio and then go to File->Settings->Plugins. Now, search the Flutter plugin. If found, select Flutter plugin and click insta



Step 12: Go to File > New Project select project name, location and click next

