MOBILE APPLICATION DEVELOPMENT LAB
(CSL 341)

DEPARTMENT OF COMPUTER SCIENCES
BAHRIA UNIVERSITY, ISLAMABAD CAMPUS

CLASS: BS (CS) – 6B

SESSION: SPRING 2025

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SUBMISSION DATE: 5th march, 2025

LAB 1

# Installation of Flutter and setting up the environment

1. Write the main steps involved in Flutter installation.

Step 1: Install Git

- ❖ Download Git from git-scm.com.
- ❖ Run the downloaded `.exe` file.
- ❖ Keep clicking next for default settings.
- ❖ Click Install and wait for the installation to complete.

Step 2: Download and Install Flutter

1. Go to the official Flutter website: flutter.dev.
2. Click Get Started and then Install Flutter.
3. Select operating system (Windows, macOS, or Linux).
4. Download the Flutter SDK.
5. Extract the downloaded ZIP file to a location. (Avoid spaces in the folder name).
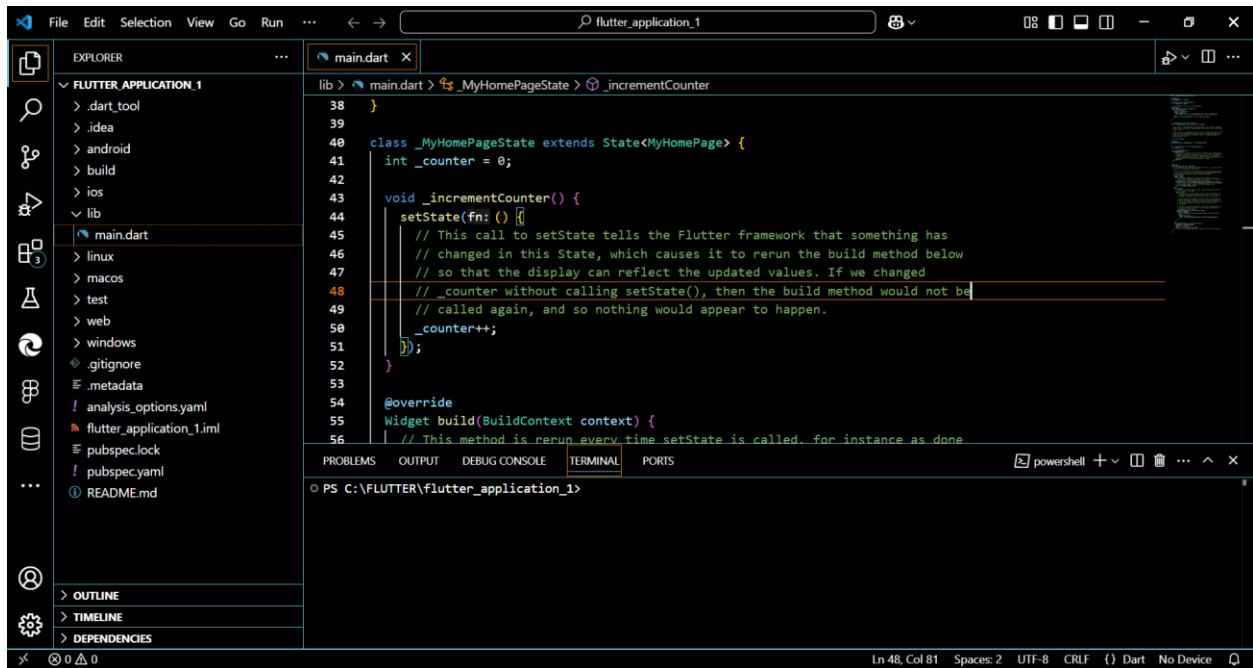
Step 4: Install Android Studio (for Emulator Support)

Download Android Studio from developer.android.com.
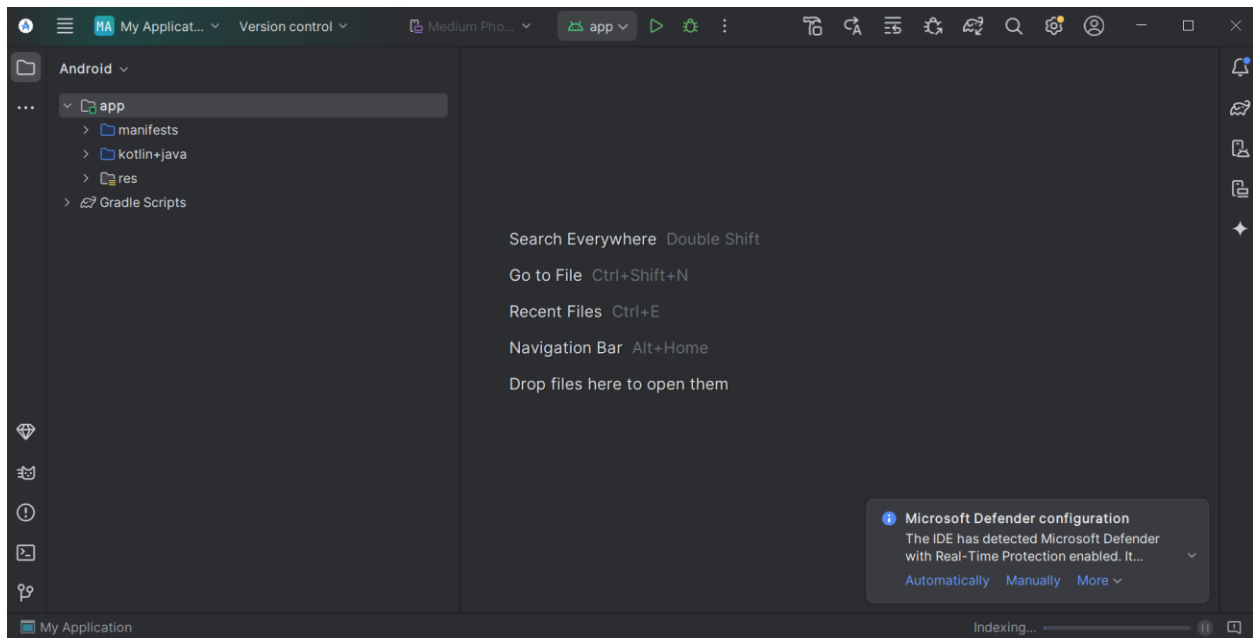
2. How you connect your mobile phone in replacement of Virtual Device? Write step by step procedure.

Step 1: Enable Developer Mode on the phone.

❖ Go to Settings and then About Phone then Tap "Build Number" 7 times until it says "You are now a developer!"

Step 2: Enable USB Debugging.

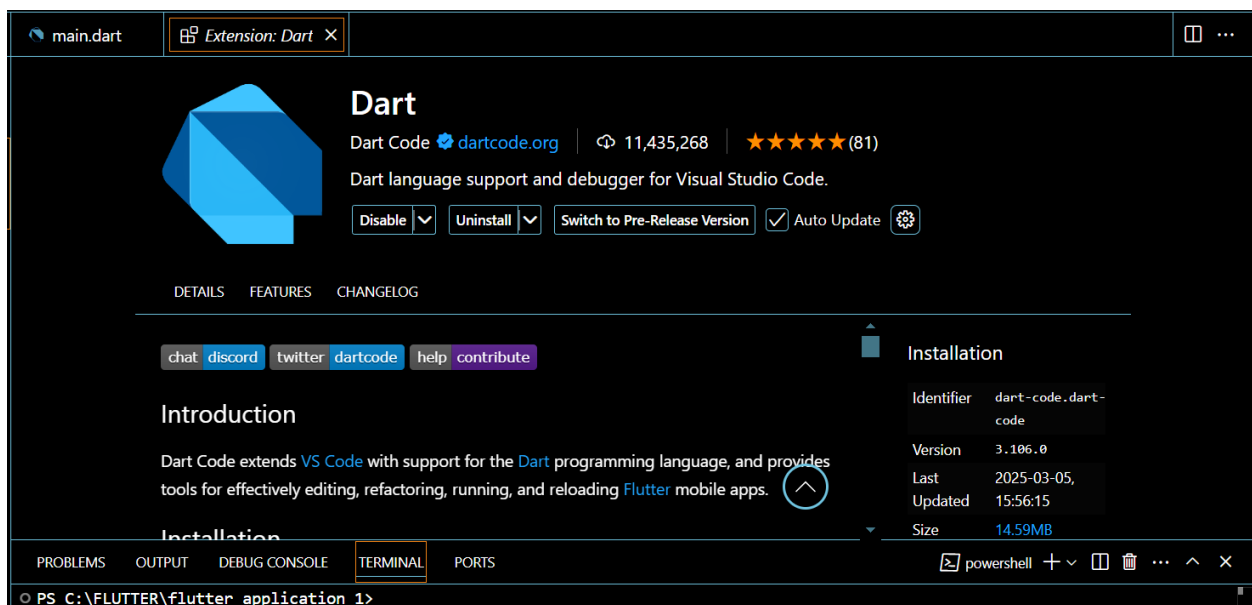❖ Go to Settings -> Developer Options -> Turn on USB Debugging.

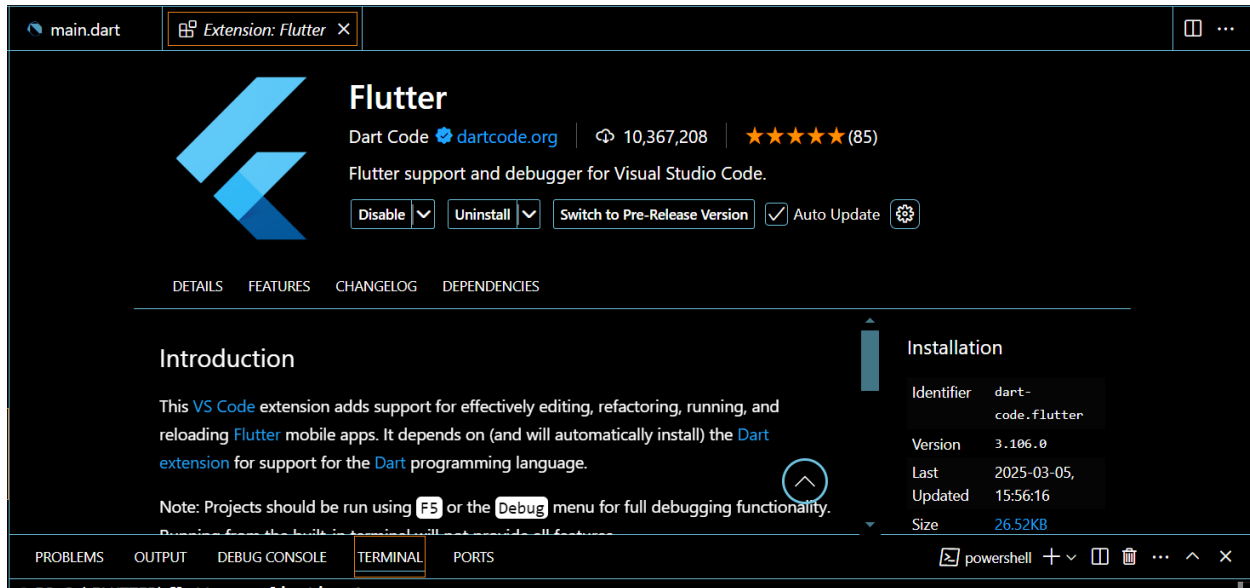**Step 3:** Connect the phone to your PC using a USB cable.

Step 4: Open VS Code and open the terminal.

Step 5: Check if your device is connected by running the command:

Flutter devices

3. In VS Code, which extension you install for flutter and Dart?

4. How can we create a flutter project?

Step 1: Open VS Code.

Step 2: Open the Command Palette.

Step 3: Type "Flutter: New Project" and select it.

Step 4: Choose "Flutter Application" as the project type.

Step 5: Enter a project name.

Step 6: Select a folder where you want to save the project.

Step 7: Wait for dependencies to install.

5. What is the advantage of setting path in environment variables?

➢ You can use flutter commands in any terminal or command prompt without navigating to the Flutter folder.

➢ No need to manually go to the Flutter installation directory each time.

➢ Commands like flutter doctor, flutter run, and flutter create work globally.

➢ Other tools like VS Code and Android Studio can detect Flutter automatically.

➢ Without setting the path, the system won't recognize Flutter commands, causing errors.

THE END