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Class : 2G

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Major : Business Information System

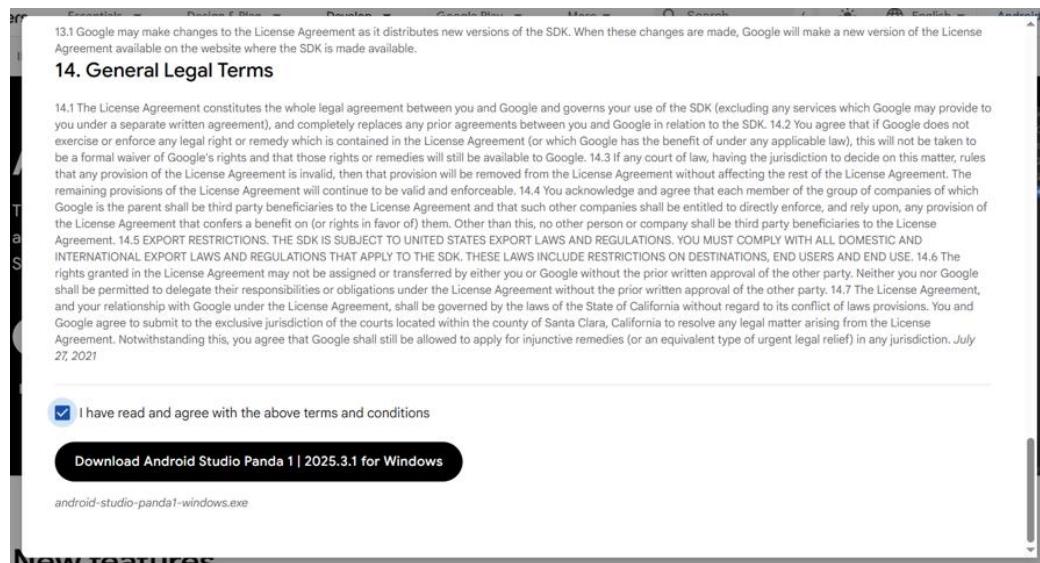
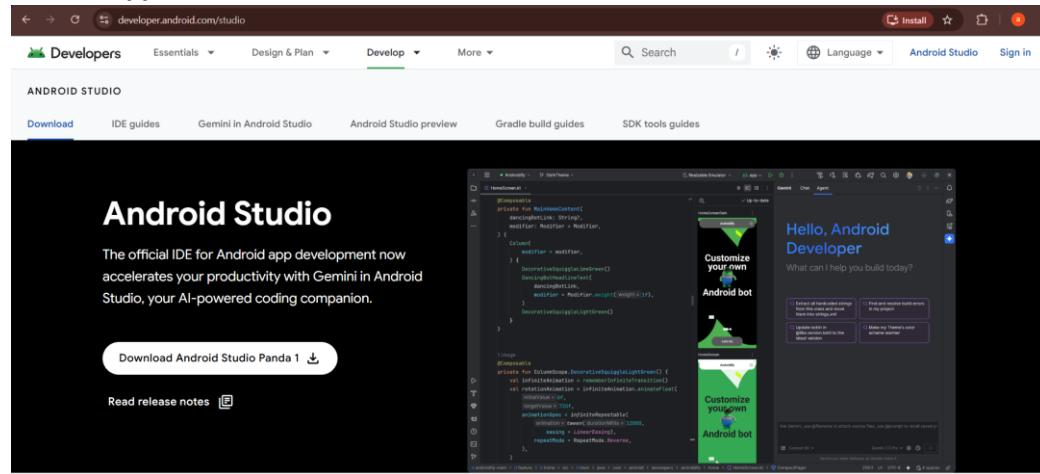
JOBSCHEET 1

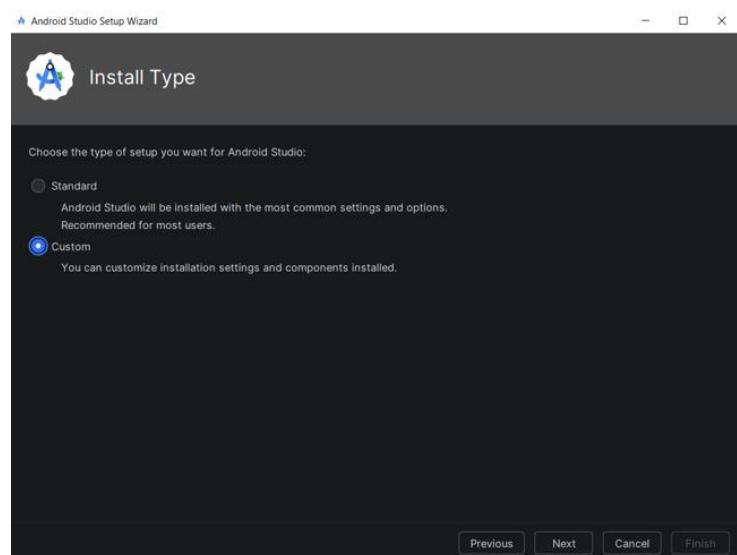
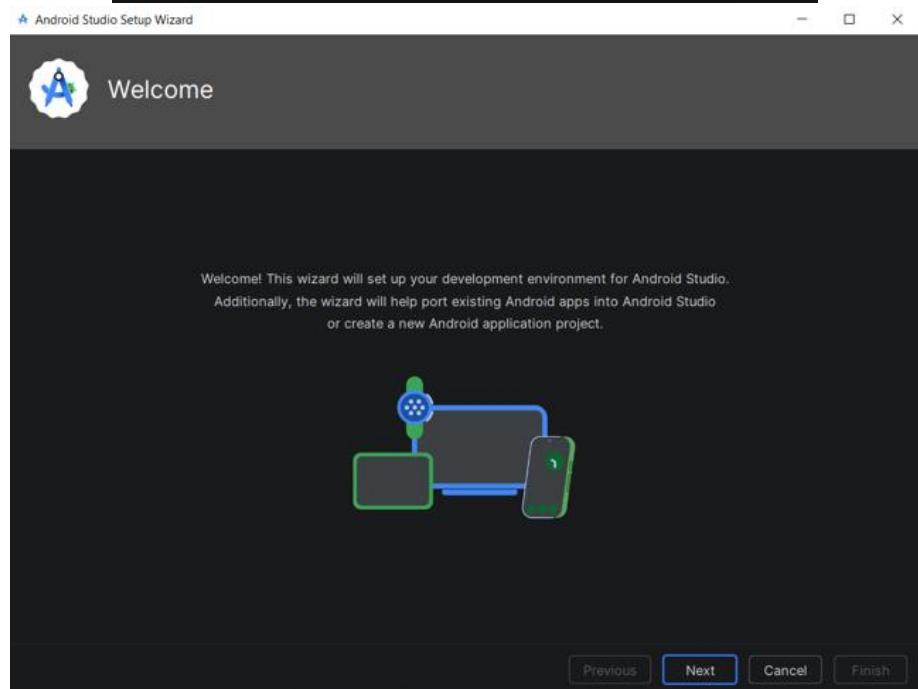
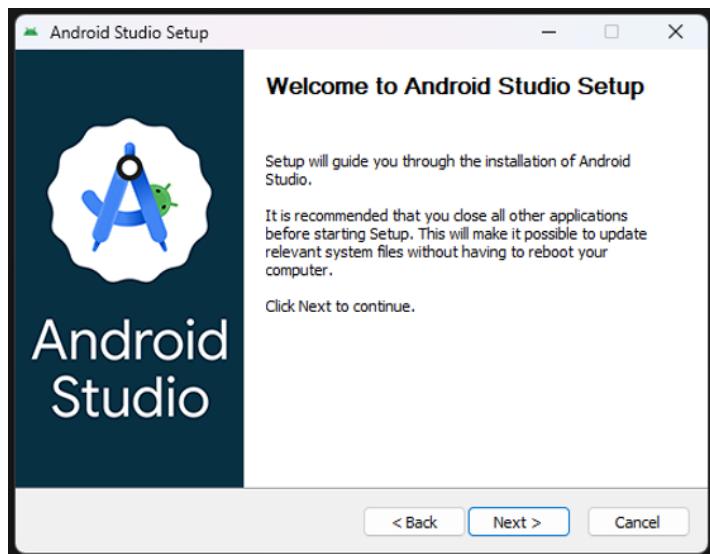
INSTALLATION ANDROID STUDIO AND FLUTTER

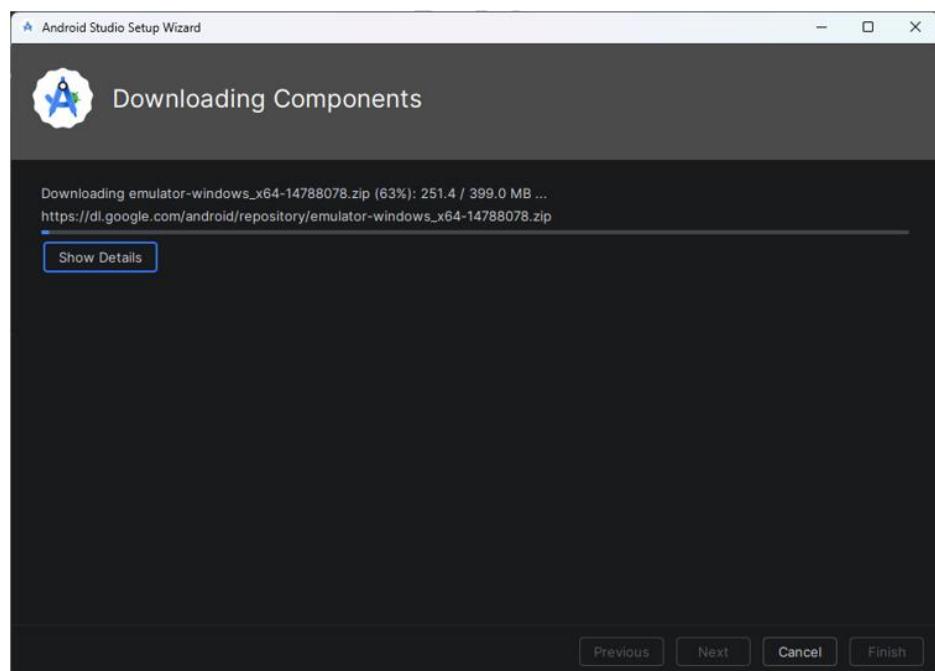
PEMROGRAMAN MOBILE

Link Github: <https://github.com/Ailsasahda13/PemrogramanMobile>

1. Download Application Android Studio





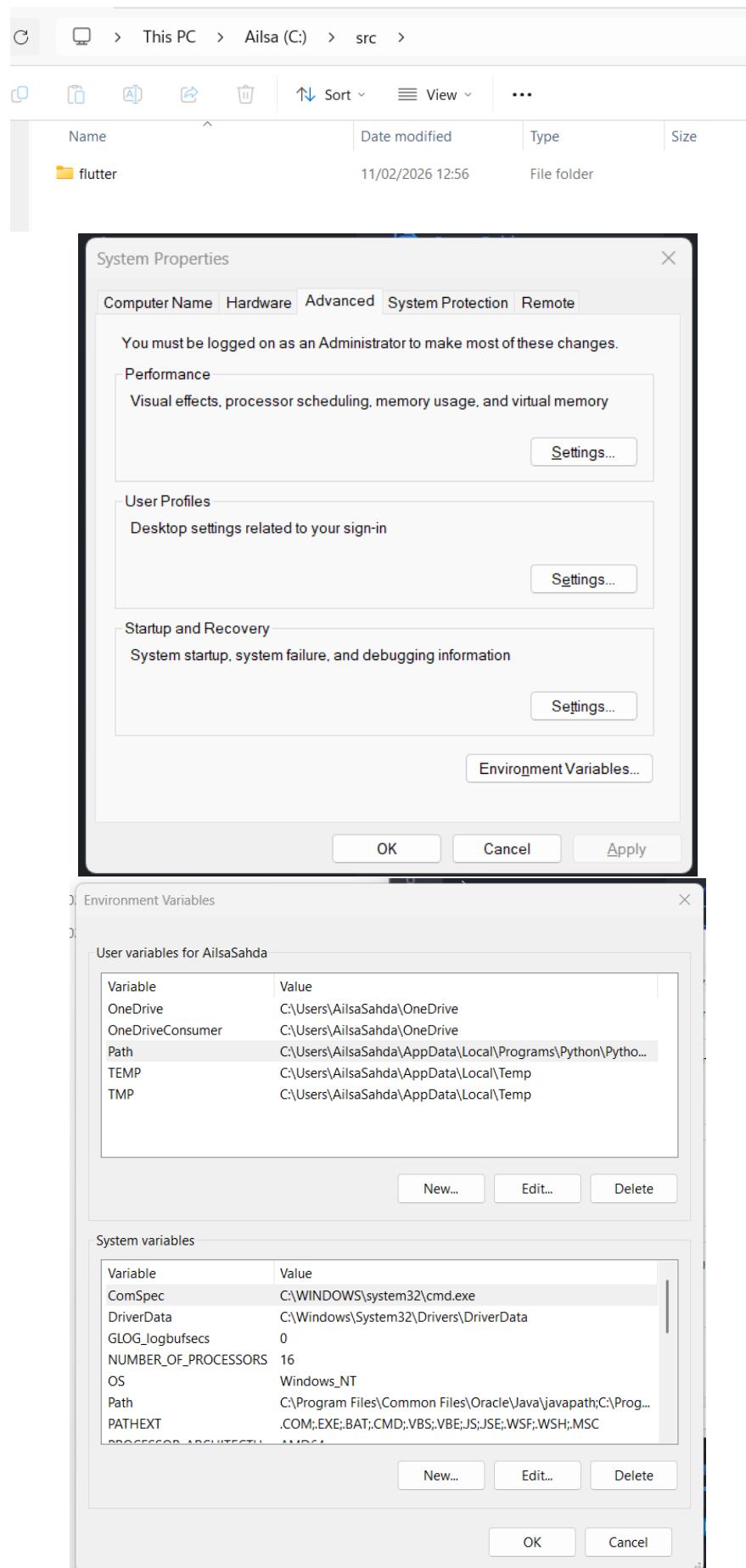


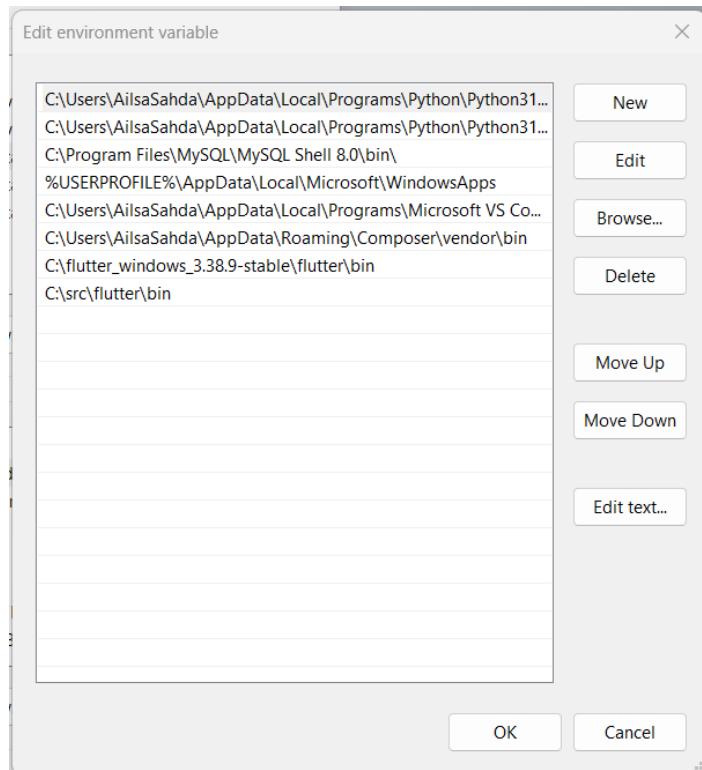
2. Download Flutter

The screenshot shows the Flutter documentation website at docs.flutter.dev/install. The main content area is titled "Install Flutter" and provides instructions on how to install the Flutter SDK. It offers two options: "Quick start" (recommended) and "Custom setup". The "Quick start" option uses VS Code or another Code OSS-based editor to quickly install, set up, and try out Flutter development! The "Custom setup" option installs the Flutter SDK, sets up any initial target platform, and gets started learning and developing with Flutter. A sidebar on the left contains a navigation menu with sections like "Install Flutter", "User interface", "Beyond UI", and "Try Flutter". A sidebar on the right lists "On this page" items such as "Try Flutter", "Update Flutter", "Download previous releases", "Troubleshoot and uninstall Flutter", and "Flutter". At the bottom, there is a cookie consent message from docs.flutter.dev.

The screenshot shows the Flutter documentation website at docs.flutter.dev/install/manual. The main content area is titled "Install and set up Flutter" and provides step-by-step instructions for downloading and extracting the Flutter SDK. Step 1: Download the Flutter SDK bundle (link to [flutter_windows_3.38.9-stable.zip](#)). Step 2: Create a folder to store the SDK (instruction: Create or find a folder to store the extracted SDK in. Consider creating and using a directory at %USERPROFILE%\develop (C:\Users\{username}\develop)). Step 3: Extract the SDK (instruction: Extract the SDK bundle you downloaded into the directory you want to store the Flutter SDK in). Sub-instructions: 1. Copy the following command. 2. Replace <sdk_zip_path> with the path to the bundle you downloaded. 3. Replace <destination_directory_path> with the path to the folder you want the extracted SDK to be in. 4. Run the edited command in your preferred terminal. A note states: Select a location that doesn't have special characters or spaces in its path and doesn't require elevated privileges. A sidebar on the left contains a navigation menu with sections like "Install Flutter", "User interface", "Beyond UI", and "Try Flutter". A sidebar on the right lists "On this page" items such as "Choose your development platform", "Download prerequisite software", "Install and set up Flutter", "Add Flutter to your PATH", and "Continue your Flutter journey". At the bottom, there is a cookie consent message from docs.flutter.dev.

The screenshot shows a download history interface with a search bar at the top labeled "Search download history". Below the search bar, it says "Today". A download entry is shown for "flutter_windows_3.38.9-stable.zip" from <https://docs.flutter.dev>. The download file icon is a yellow folder with a zipper. To the right of the file name are three small icons: a circular arrow, a folder, and a close (X) button. At the bottom right of the download card are three small icons: a circular arrow, a folder, and a close (X) button.





```
C:\Users\AilsaSahda>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]

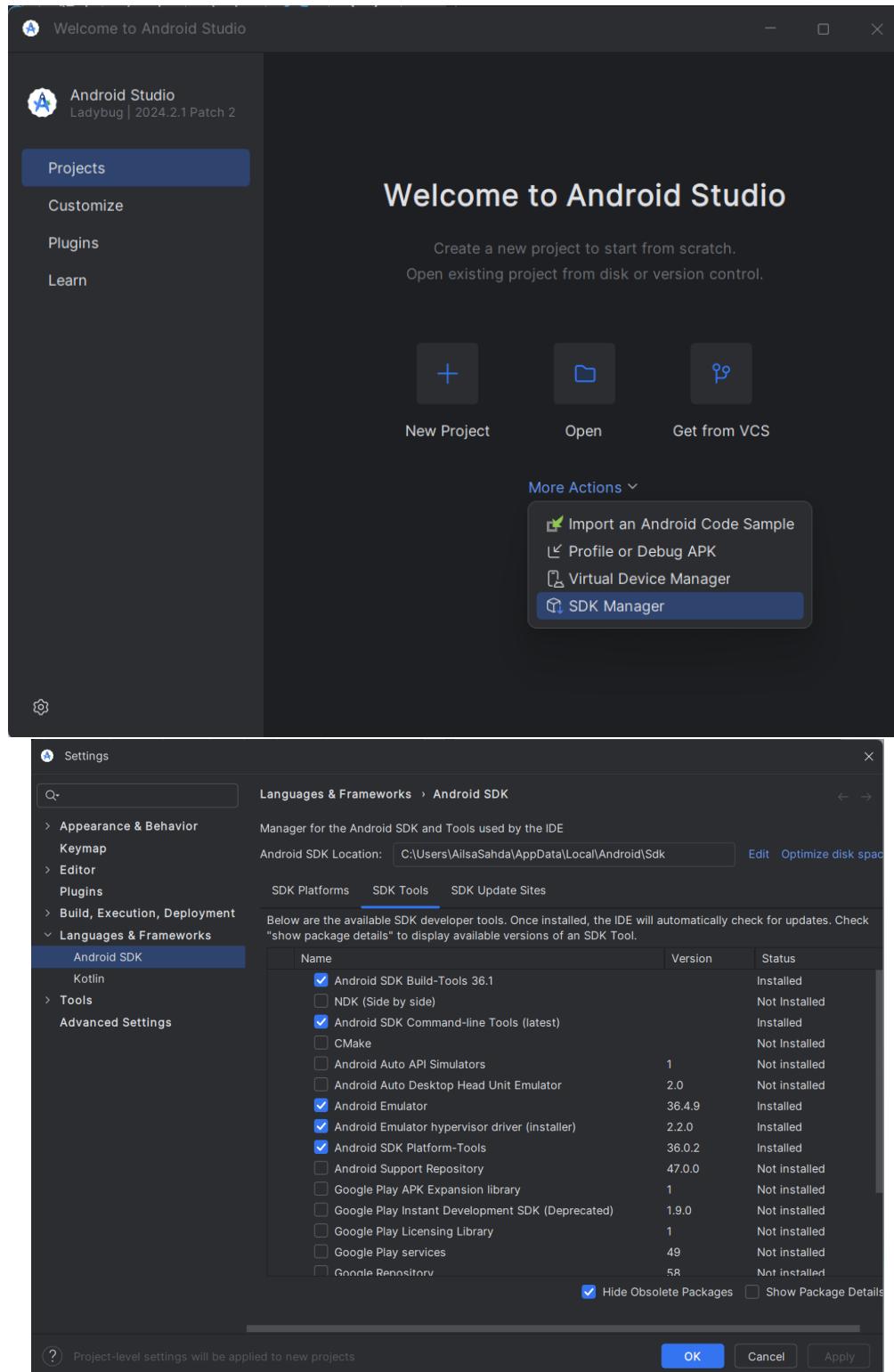
Global options:
  -h, --help          Print this usage information.
  -v, --verbose       Noisy logging, including all shell commands executed.
                      If used with "--help", shows hidden options. If used with "flutter doctor", shows additional diagnostic information. (Use "-vv" to force verbose logging 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 command runs.
  --disable-analytics Disable telemetry reporting each time a flutter or dart command runs, until it is re-enabled.
  --suppress-analytics Suppress analytics reporting for the current CLI invocation.

Available commands:
  Flutter SDK
    bash-completion  Output command line shell completion setup scripts.

C:\Users\AilsaSahda>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.38.9, on Microsoft Windows [Version 10.0.26100.7623], locale en-ID)
[✓] Windows Version (11 Home Single Language 64-bit, 24H2, 2009)
[✓] Android toolchain - develop for Android devices (Android SDK version 36.1.0)
[✓] 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
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 1 category.
```

3. Android Studio



Settings

Languages & Frameworks > Android SDK

Manager for the Android SDK and Tools used by the IDE

Android SDK Location: C:\Users\AilsaSahda\AppData\Local\Android\Sdk Edit Optimize disk space

SDK Platforms SDK Tools SDK Update Sites

Each Android SDK Platform package includes the Android platform and sources pertaining to an API level by default. Once installed, the IDE will automatically check for updates. Check "show package details" to display individual SDK components.

Name	API Level	Revision	Status
<input type="checkbox"/> Android Baklava Preview	Baklava	1	Not installed
<input checked="" type="checkbox"/> Android API 36	36	2	Installed
<input type="checkbox"/> Android API 36	36-ext18	1	Not installed
<input type="checkbox"/> Android API 36	36-ext19	1	Not installed
<input type="checkbox"/> Android 15.0 ("VanillaIceCream")	35	2	Not installed
<input type="checkbox"/> Android 15.0 ("VanillaIceCream")	35-ext14	1	Not installed
<input type="checkbox"/> Android 15.0 ("VanillaIceCream")	35-ext15	1	Not installed
<input checked="" type="checkbox"/> Android 14.0 ("UpsideDownCake")	34	3	Installed
<input type="checkbox"/> Android 14.0 ("UpsideDownCake")	34-ext8	1	Not installed
<input type="checkbox"/> Android 14.0 ("UpsideDownCake")	34-ext10	1	Not installed
<input type="checkbox"/> Android 14.0 ("UpsideDownCake")	34-ext11	1	Not installed
<input type="checkbox"/> Android 14.0 ("UpsideDownCake")	34-ext12	1	Not installed
<input type="checkbox"/> Android 13.0 ("Tiramisu")	33	3	Not installed
<input type="checkbox"/> Android 13.0 ("Tiramisu")	33-ext4	1	Not installed

Hide Obsolete Packages Show Package Details

Project-level settings will be applied to new projects

OK Cancel Apply

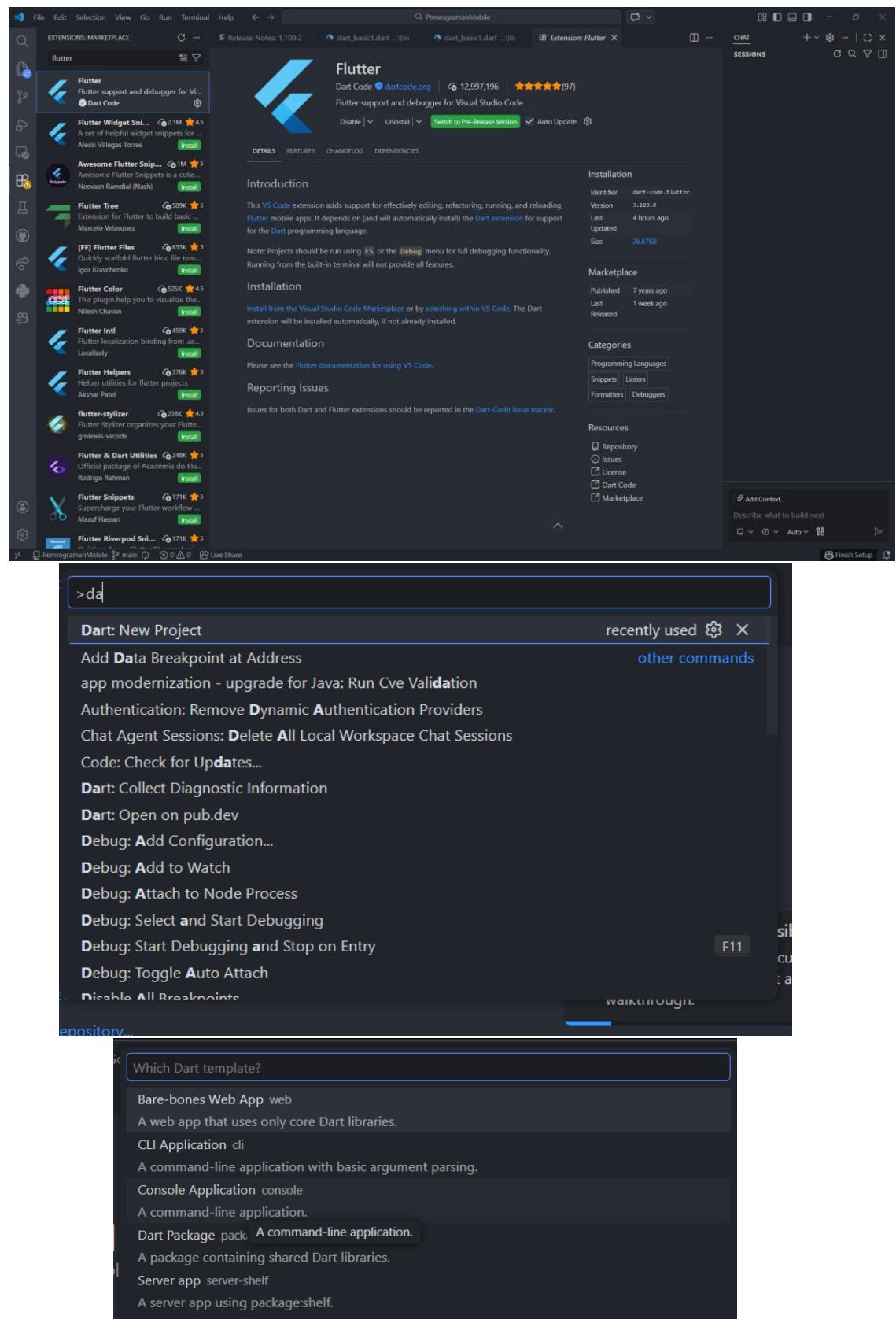
```
C:\Users\AilsaSahda>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[!] Flutter (Channel stable, 3.8.9, on Microsoft Windows [Version 10.0.26100.7623], locale en-ID)
[!] Windows Version (11 Home Single Language 64-bit, 24H2, 2009)
[!] Android toolchain - develop for Android devices (Android SDK version 36.1.0)
[!] 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
[!] Connected device (3 available)
[!] Network resources

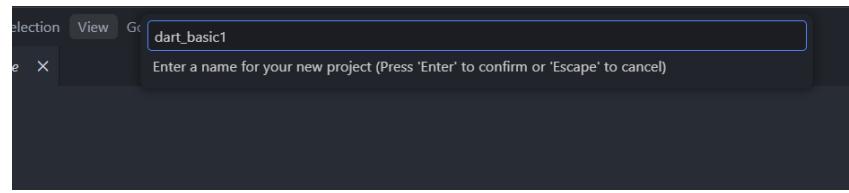
! Doctor found issues in 1 category.
```

Toolchain successfull

4. Visual Studio Code

- Download Extension Flutter





Code

```
dart_basic1 > bin > dart_basic1.dart > ...
1 //comment untuk mengimport(include)
2 import 'package:dart_basic1/dart_basic1.dart' as dart_basic1;
3
4 Run | Debug
5 void main(List<String> arguments) {
6   print('Hello world: ${dart_basic1.calculate()}!');
7
8   //tugas
9   print('Triangle Area: ${dart_basic1.TriangleArea()}!');
10 }

dart_basic1 > lib > dart_basic1.dart > calculate
1 int calculate() {
2   return 6 * 7;
3 }
4
5 //tugas menghitung luas segitiga
6 int TriangleArea() {
7   int base = 13;
8   int height = 20;
9
10  return (base * height) ~/ 2;
11 }
12
```