

EXPERIMENT NO 1

Name: Sonam Chhabaidiya

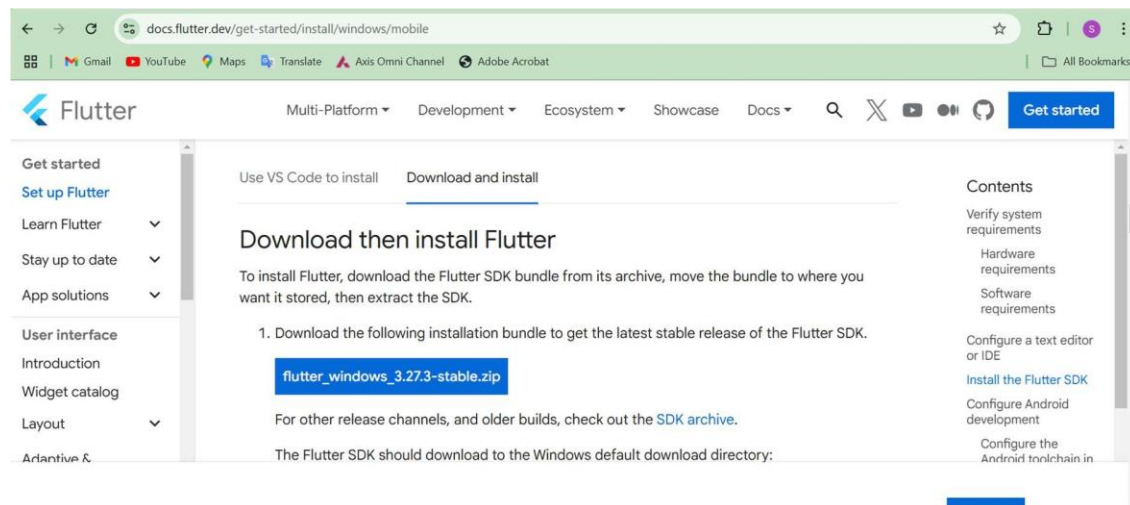
Class: D15A

Roll No: 09

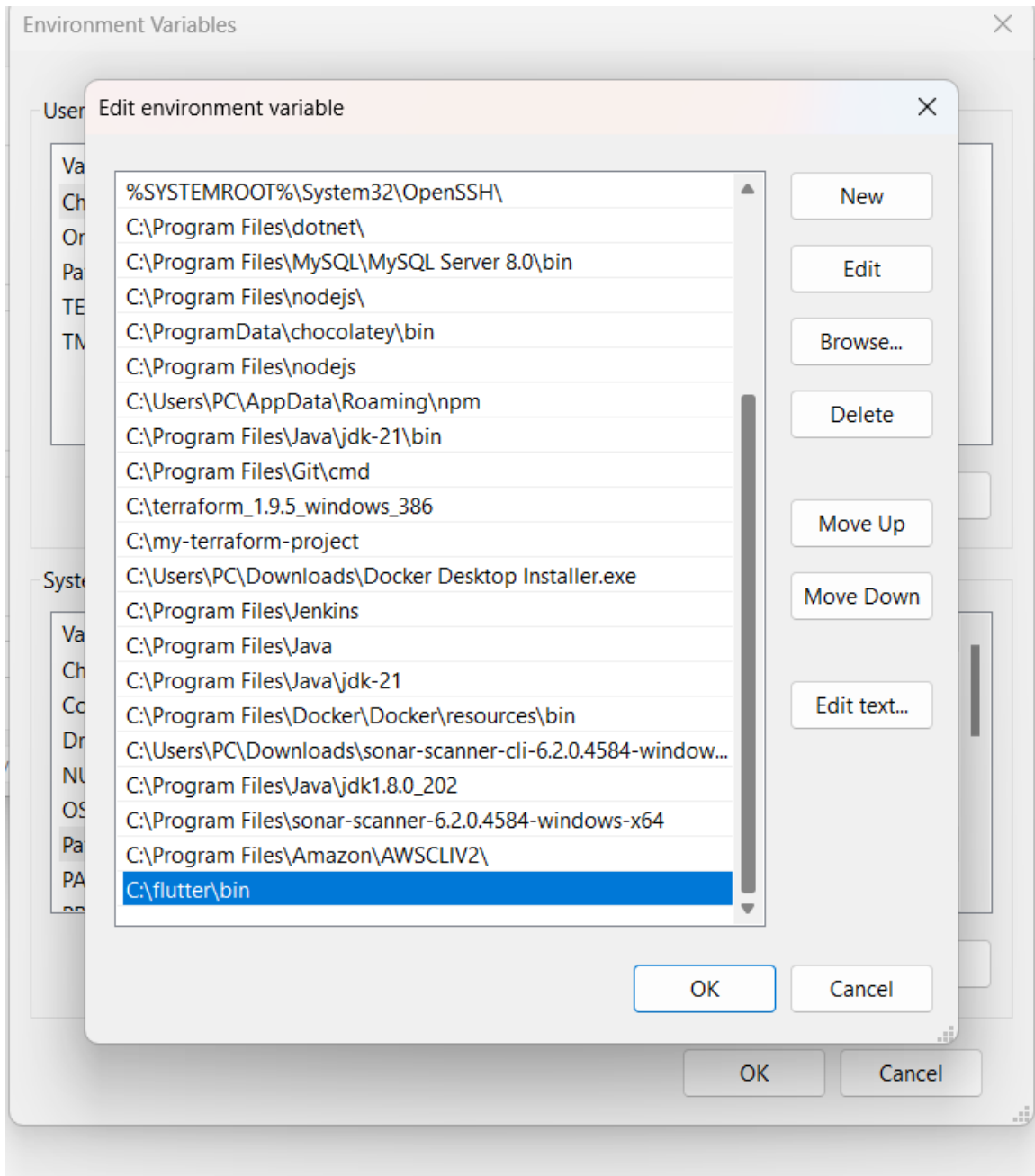
AIM: Installation and Configuration of Flutter Environment.

CODE:

Step 1: Install Flutter



Step 2: Setting the Environment Variable



Step3: Running Flutter command

```
PS C:\Users\PC\Sonam> 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.
channel          List or switch Flutter channels.
config           Configure Flutter settings.
doctor           Show information about the installed tooling.
downgrade        Downgrade Flutter to the last active version for the current channel.
precache         Populate the Flutter tool's cache of binary artifacts.
upgrade          Upgrade your copy of Flutter.

Project
```

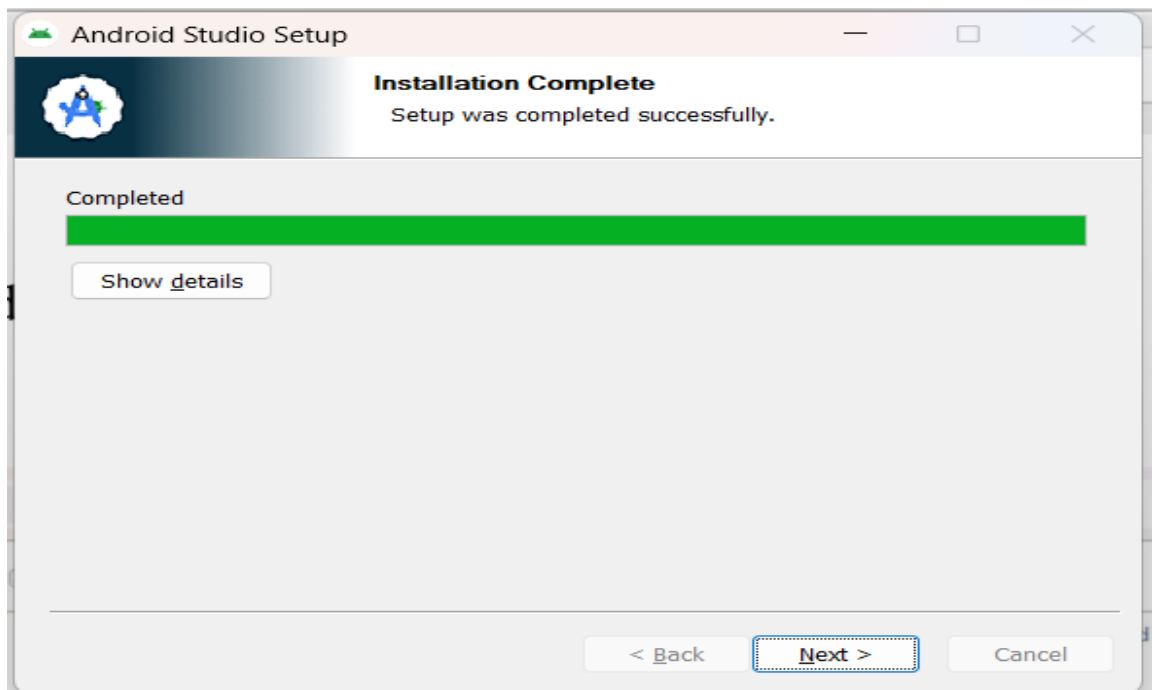
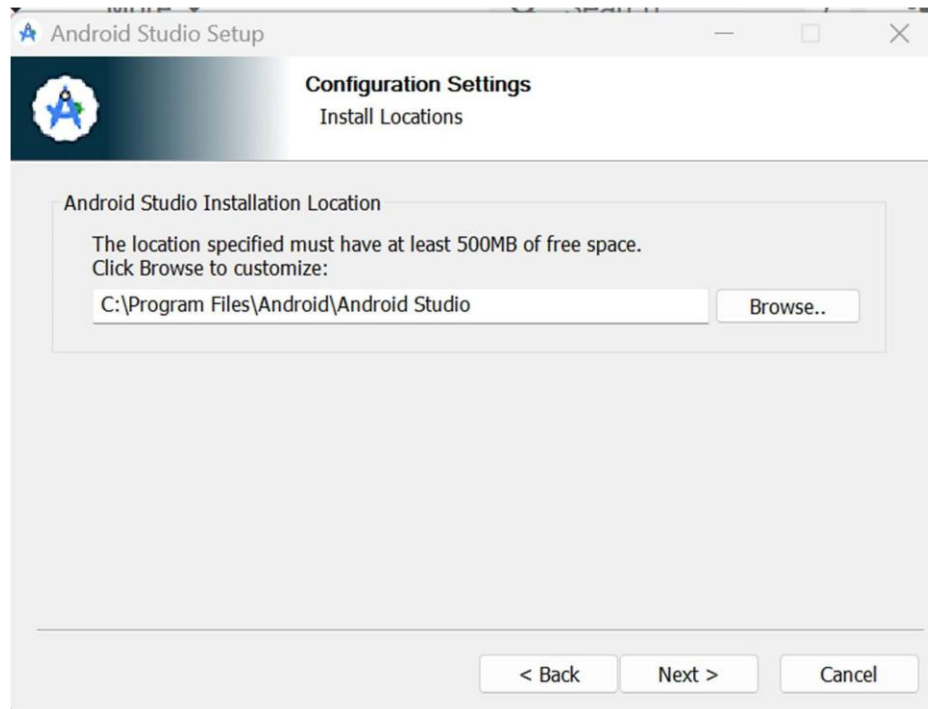
Step4: Running flutter doctor

```
PS C:\Users\PC\Sonam> flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.22631.4602], 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/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.

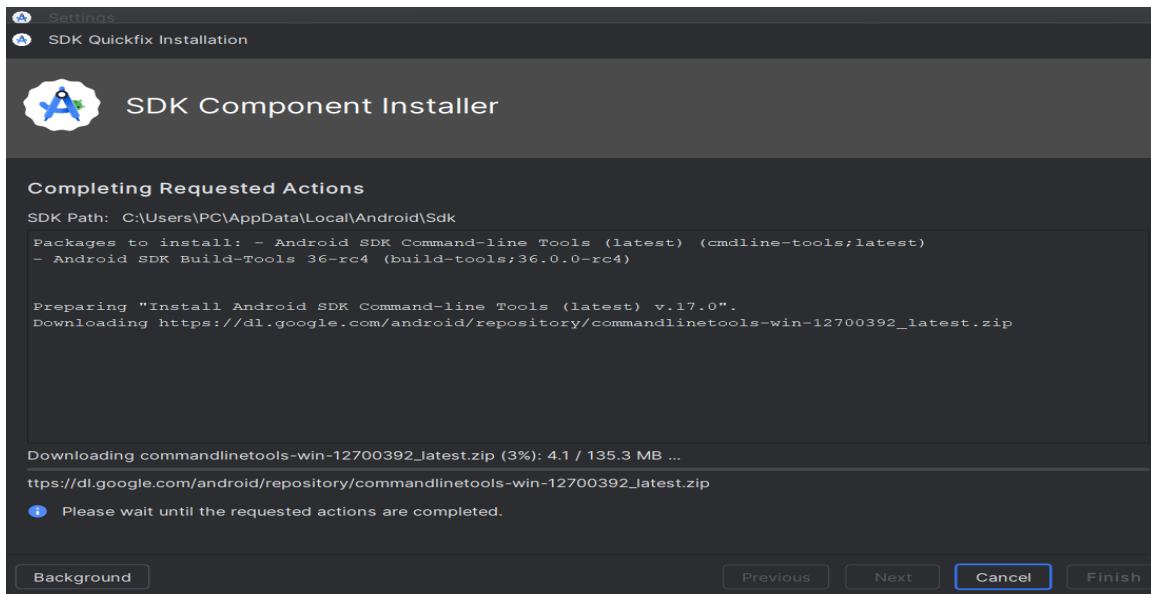
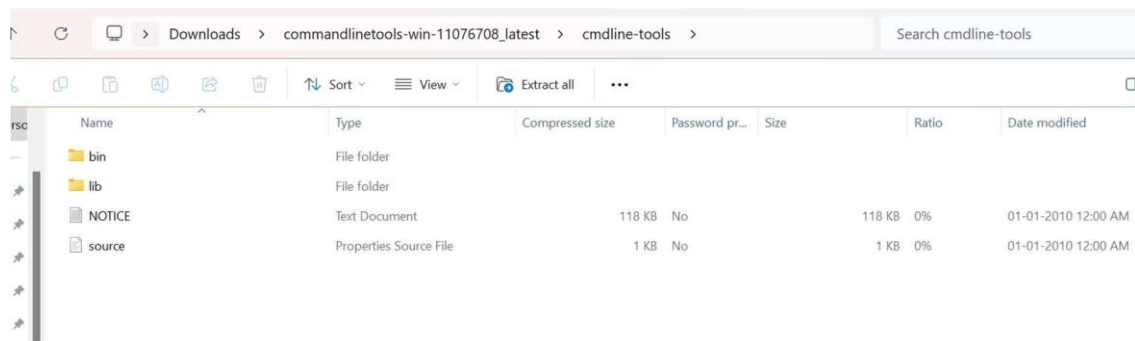
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Build Tools 2019 16.11.38)
[!] Android Studio (not installed)
[✓] VS Code (version 1.95.2)
[✓] Connected device (3 available)
[✓] Network resources

! Doctor found issues in 2 categories.
PS C:\Users\PC\Sonam> |
```

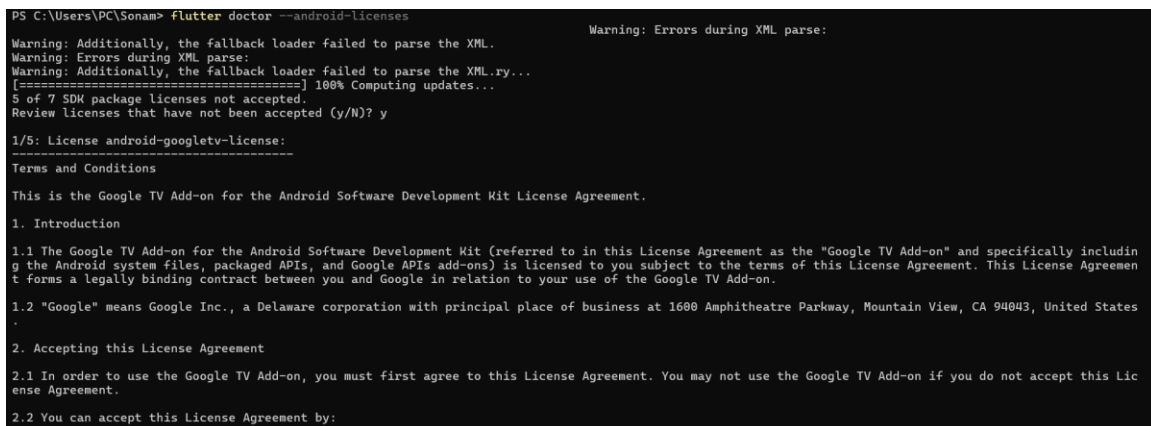
Step 5: Downloading Android SDK



Step 6: Downloaded command line tools of Android SDK



Step7: Accepted the Android licenses



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 Accept? (y/N): Y
 All SDK package licenses accepted

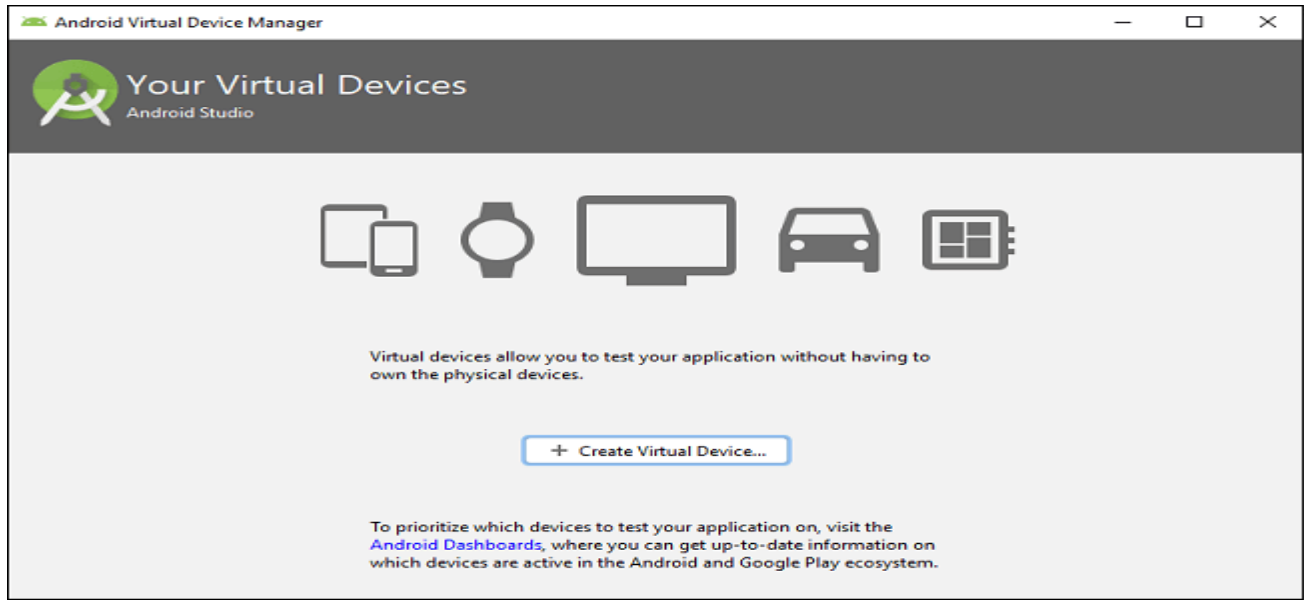
Successful Running of flutter doctor command

```
PS C:\Users\PC\Sonam> flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.22631.4602], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✓] Android toolchain - develop for Android devices (Android SDK version 35.0.1)
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Build Tools 2019 16.11.38)
[✓] Android Studio (version 2024.2)
[✓] VS Code (version 1.95.2)
[✓] Connected device (3 available)
[✓] Network resources

• No issues found!
PS C:\Users\PC\Sonam> |
```

Step 8: Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application.

Step 8.1: To set an Android emulator, go to Android Studio > Tools > Android > AVD Manager and select Create Virtual Device. Or, go to Help->Find Action->Type Emulator in the search box. You will get the following screen.



Step 8.2: Choose your device definition and click on Next.

Step 8.3: Select the system image for the latest Android version and click on Next.

Step 8.4: Now, verify the all AVD configuration. If it is correct, click on Finish. The following screen appears.

