Date: 23/8/25

1. Install ANDROID STUDIO and Setup AVD

Android Studio is the official Integrated Development Environment (IDE) for Android app development. Based on the powerful code editor and developer tools from IntelliJ IDEA , Android Studio offers even more features that enhance your productivity when building Android apps, such as

1. A flexible Gradle-based build system

2. A fast and feature-rich emulator

3. A unified environment where you can develop for all Android devices

4. Live Edit to update composables in emulators and physical devices in real time

5. Code templates and GitHub integration to help you build common app features and import sample code

6. Extensive testing tools and frameworks

7. Lint tools to catch performance, usability, version compatibility, and other problems

8. C++ and NDK support

9. Built-in support for Google Cloud Platform, making it easy to integrate Google Cloud Messaging and App Engine

1. **Install Android Studio and setup AVD.**

1. Goto Google and search Java JDK download.

2.

JDK Development Kit 20.0.2 downloads

JDK 20 binaries are free to use in production and free to redistribute, at no cost, under the Oracle No-Fee Terms and Conditions.

JDK 20 will receive updates under these terms, until September 2023 when it will be superseded by JDK 21.

Linux **macOS** **Windows**

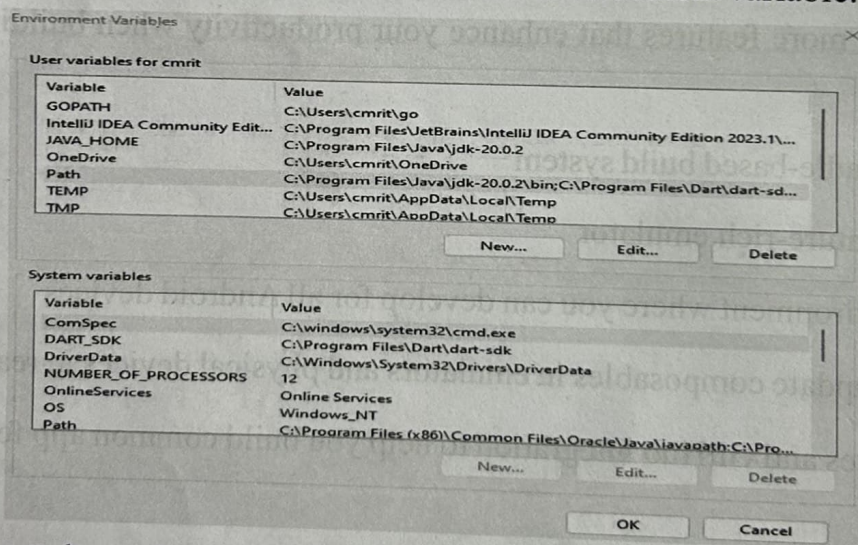| Product/file description	File size	Download
ARM64 Compressed Archive	181.55 MB	https://download.oracle.com/java/20/latest/jdk-20_linux-aarch64_bin.tar.gz (sha256)
ARM64 RPM Package	181.27 MB	https://download.oracle.com/java/20/latest/jdk-20_linux-aarch64_bin.rpm (sha256) (OL 8 GPG Key)
x64 Compressed Archive	183.11 MB	https://download.oracle.com/java/20/latest/jdk-20_linux-x64_bin.tar.gz (sha256)
x64 Debian Package	155.91 MB	https://download.oracle.com/java/20/latest/jdk-20_linux-x64_bin.deb (sha256)
x64 RPM Package	182.82 MB	https://download.oracle.com/java/20/latest/jdk-20_linux-x64_bin.rpm (sha256) (OL 8 GPG Key)

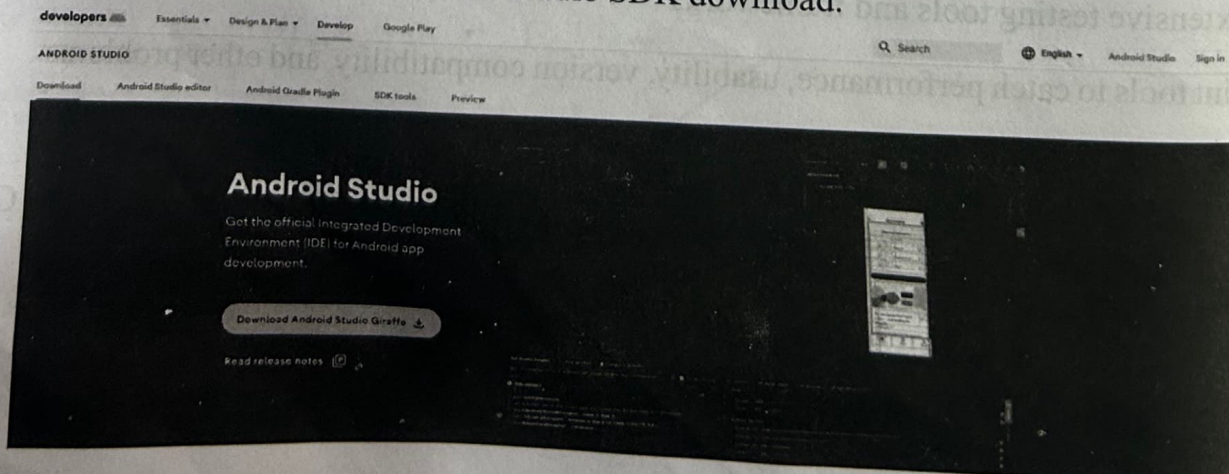**3.** Click on the below link and download the Java JDK.

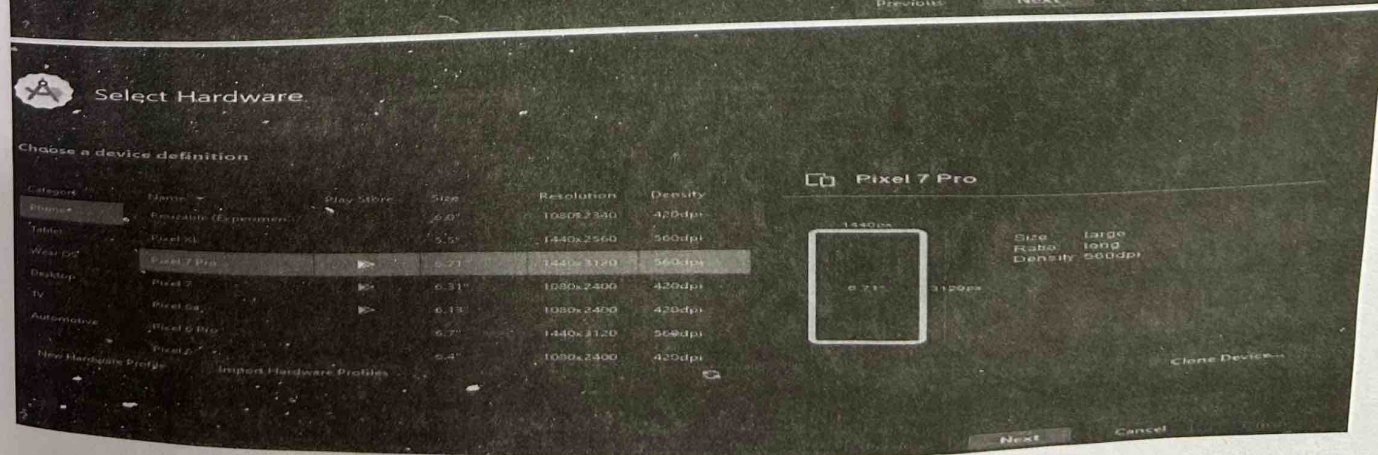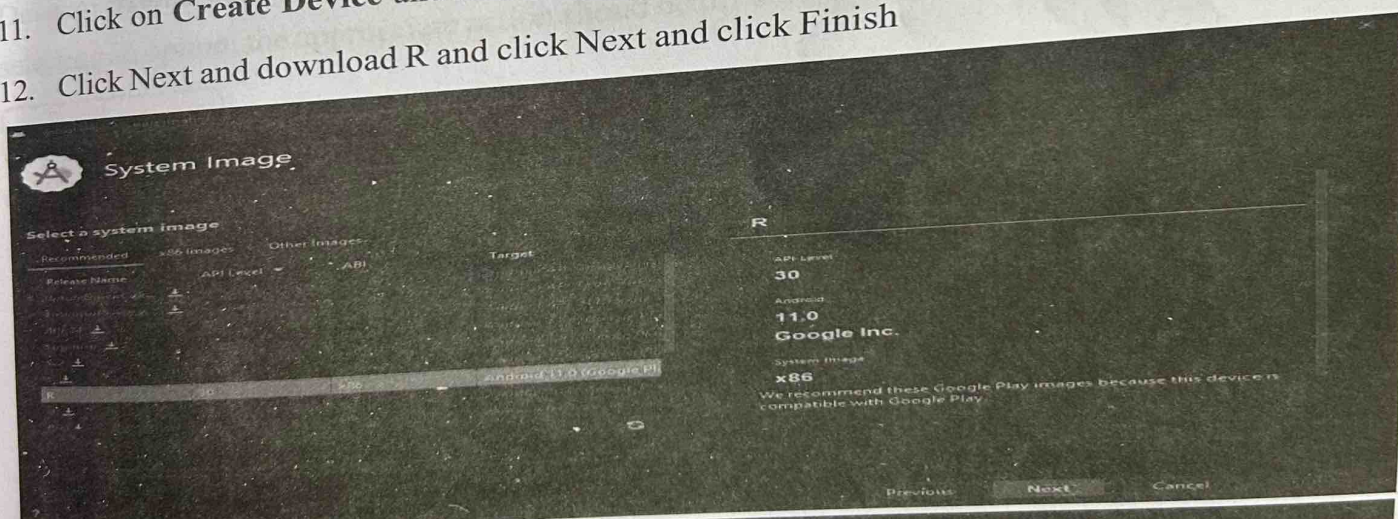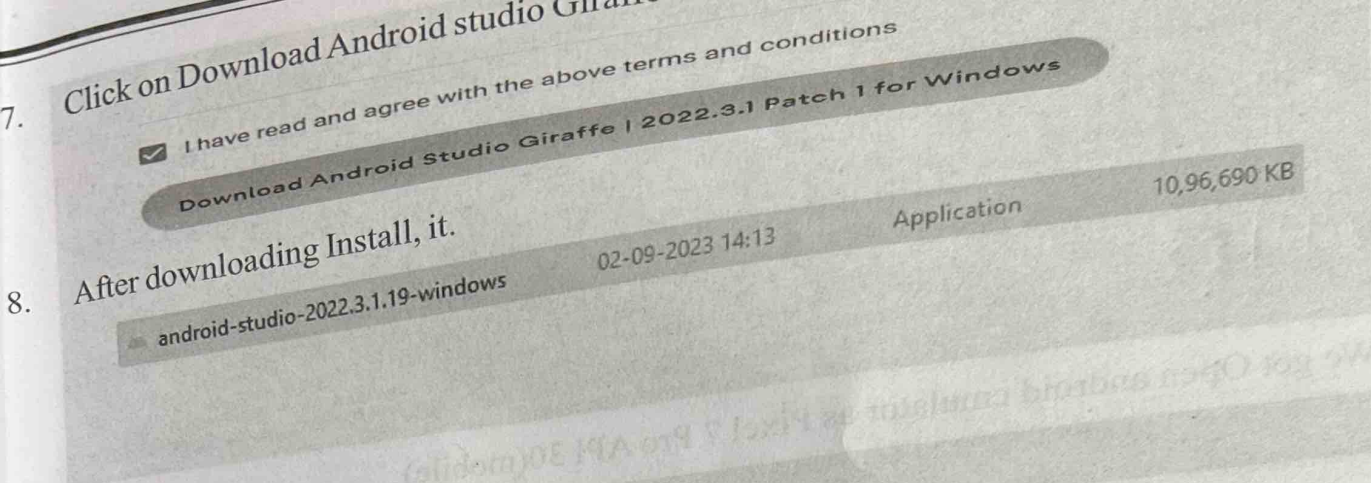| x64 Compressed Archive	183.11 MB	https://download.oracle.com/java/20/latest/jdk-20_linux-x64_bin.tar.gz (sha256)

4. After downloading the Java JDK Install it.

5. After installation open the bin folder and copy the address C:\Program Files\Java\jdk 20.0.2\bin and paste into the **Path** variable in the Environment variable.

Environment Variables

User variables for cmrit

Variable	Value
GOPATH	C:\Users\cmrit\go
IntelliJ IDEA Community Edit...	C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.1\...
JAVA_HOME	C:\Program Files\Java\jdk-20.0.2
OneDrive	C:\Users\cmrit\OneDrive
Path	C:\Program Files\Java\jdk-20.0.2\bin;C:\Program Files\Dart\dart-sd...
TEMP	C:\Users\cmrit\AppData\Local\Temp
TMP	C:\Users\cmrit\AppData\Local\Temp

New...   Edit...   Delete

System variables

Variable	Value
ComSpec	C:\windows\system32\cmd.exe
DART_SDK	C:\Program Files\Dart\dart-sdk
DriverData	C:\Windows\System32\Drivers\DriverData
NUMBER_OF_PROCESSORS	12
OnlineServices	Online Services
OS	Windows_NT
Path	C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\Pro...

New...   Edit...   Delete

OK   Cancel

6. Go to Google and search Android Studio SDK download.

developers   Essentials ▼   Design & Plan ▼   Develop   Google Play

ANDROID STUDIO   Q Search   🌐 English ▼   Android Studio   Sign in

Download   Android Studio editor   Android Gradle Plugin   SDK tools   Preview

Android Studio

Get the official Integrated Development Environment (IDE) for Android app development.

Download Android Studio Giraffe ⬇

Read release notes 📄

7. Click on Download Android studio Gira[...]

☑ I have read and agree with the above terms and conditions

Download Android Studio Giraffe | 2022.3.1 Patch 1 for Windows

8. After downloading Install, it.

📄 android-studio-2022.3.1.19-windows	02-09-2023 14:13	Application	10,96,690 KB

9. After Installation open the Android studio.

10. Go to Device Manager on the right side menu of the Android Studio.

11. Click on **Create Device** and Select the Phone and Pixel 7 Pro

12. Click Next and download R and click Next and click Finish

13. We get Open android emulator as Pixel 7 Pro API 30(mobile)