**TO RUN IONIC IN REAL DEVICES**

INSTALL “ JDK ” IN YOUR SYSTEM

1. First Install “JDK” and go to program file and copy => C:\Program Files\Java\jdk-16.0.1”.
2. Right click on THIS PC > PROPERTIES > ADVANCE SYSTEM SETTING > ENVIROMENT VARIABLES:

**SYSTEM VARIABLE**

1. Select “path” option and click edit and paste “C:\Program Files\Java\jdk-16.0.1” (if not working install JDK version 11)
2. Click \_NEW button => in the variable name: type “JAVA\_HOME” and paste “C:\Program Files\Java\jdk-16.0.1”

INSTALL ANDROID STUDIO

1. CREATE NEW PROJECT > choose BLANK TEMPLATE
2. It will update and download “GRADLE” then go to > Tools > SDK Manager then select all and download all version and platforms on android.
3. Go to “SDK tools” tab under “SDK Manager tab” and select all android versions.
4. Go to “C:\Users\dell\AppData\Local\Android\Sdk” and copy this path.
5. Right click on THIS PC > PROPERTIES > ADVANCE SYSTEM SETTING > ENVIROMENT VARIABLES and CREATE NEW VARIABLE in “user variables section” with name “ANDROID\_SDK\_ROOT” and paste path ”C:\Users\dell\AppData\Local\Android\Sdk”.
6. Create on more variable on the same “user variables section” section “ANDROID\_HOME” and paste “C:\Users\dell\AppData\Local\Android\Sdk”
7. And the same “ANDROID\_HOME” := “C:\Users\dell\AppData\Local\Android\Sdk” and paste on “system variables”

GRADLE INSTALLATION IN SYSTEM USING BINARY FILES

1. Download Gradle –Binary from “https://gradle.org/releases/” to download gradle binaries.
2. Now create folder with name “Gradle” in your “C Drive” and paste binary folder and copy paste its bin location which is now “C:\Gradle\gradle-6.9\bin” and make new entry in “path” of “system variable”.
3. RESTART SYSTEM

MIGHT GET 2 ERRORS

1. No installed build tools found. Install the Android build tools version 19.1.0 or higher.

Solutions => change “ANDROID\_SDK\_ROOT” enviorement path to “”C:\Users\dell\AppData\Local\Android\Sdk” and restart system.

1. Could not compile settings file platforms\android\settings.gradle

Solutions => downgrad JDK to version 11

**If you recently installed Android you should accept some licences:**

Run cmd CLI: sdkmanager –licenses

Accept all asked prompt

**IF NONE OF ABOVE WORKING TRY MAKING BELOW CHANGES:**

“USER VARIABLE FOR …..”

ANDROID\_SDK\_ROOT

C:\Users\Laptop\AppData\Local\Android\Sdk

GRADLE\_HOME

C:\Gradle\gradle-7.4.2\bin

JAVA\_HOME

C:\Program Files\Java\jdk-11.0.15

Under “path” paste :- C:\Gradle\gradle-7.4.2\bin

“SYSTEM VARIABLE”

ANDROID\_HOME

C:\Users\Laptop\AppData\Local\Android\Sdk

ANDROID\_SDK\_ROOT

C:\Program Files\Java\jdk-11.0.15

GRADLE\_HOME

C:\Gradle\gradle-7.4.2\bin

JAVA\_HOME

C:\Program Files\Java\jdk-11.0.15

Under “path” paste :- C:\Gradle\gradle-7.4.2\bin