# **Prerequisites For Mobile Programming of SYIT Practical**

## **Hardware Requirement:-**

- **1. RAM**: 4GB & Above.
- **2. HDD:** 300GB & Above.
- **3. INTERNET** Connection.

## **Software Requirement:-**

- 1. node-v6.10.3.
- 2. jdk-8u131-windows.
- 3. intelhaxm-android.
- **4.** gradle-4.0-all zip file.
- 5. Git-2.13.0.
- 6. Android sdk.

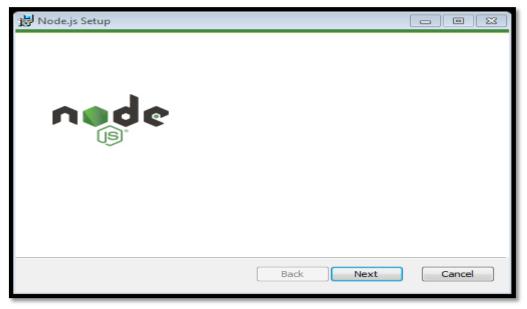


## **Installation Step of CORDOVA:-**

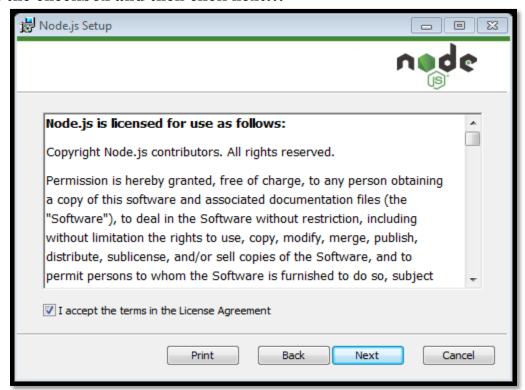
- 1. First Install Java jdk-8u131-windows and then install following software.
- 2. Step for Installation of node-v6.10.3

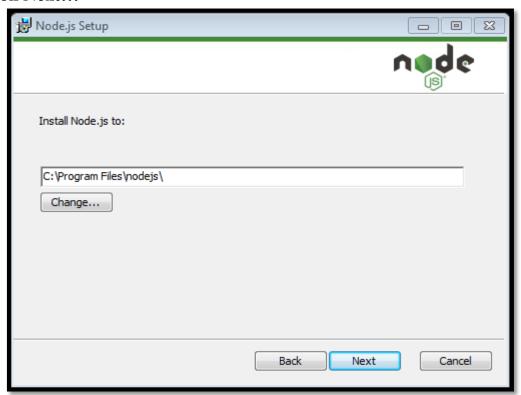
Double Click on the following node-v6.10.3 Windows Installer.



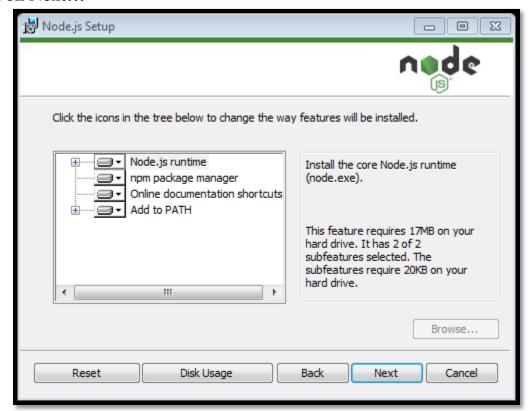


## Select the checkbox and then click next...

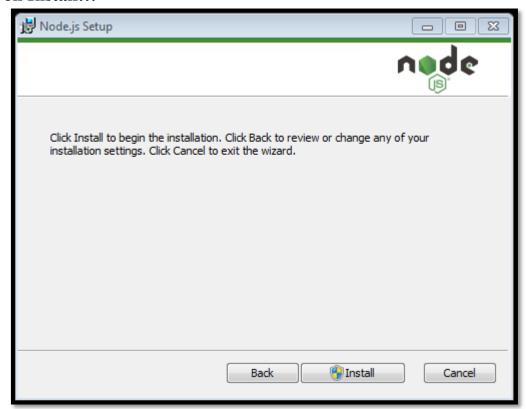


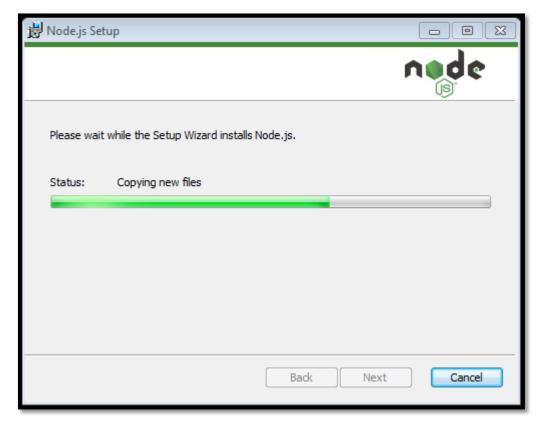


## Click on Next...

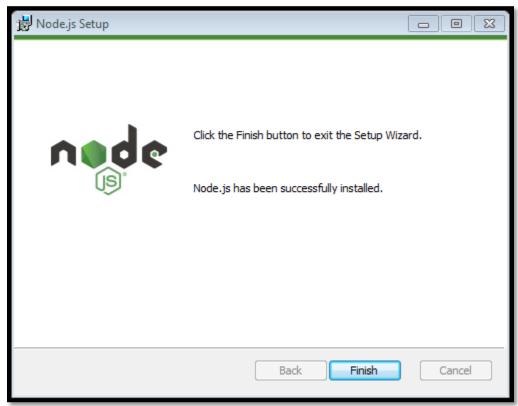


## Click on Install...





# Click on Finish...

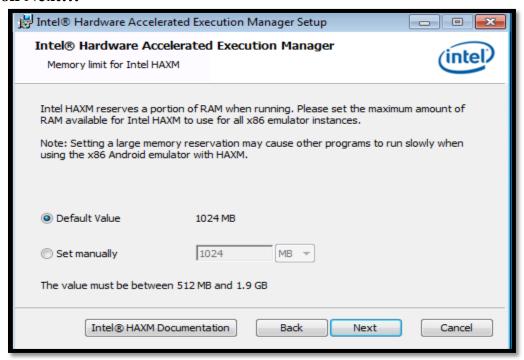


3. Step of Installation for intelhaxm-android Double Click on the following intelhaxm-android Application file.

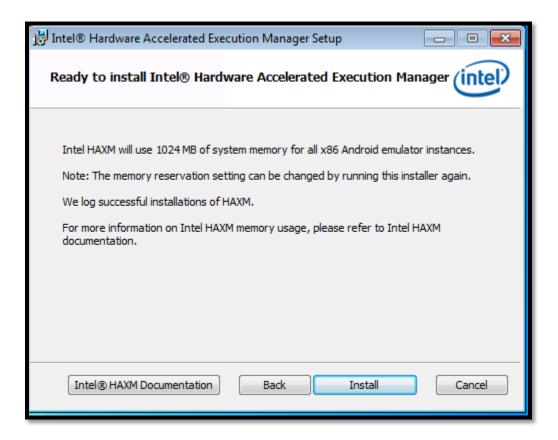


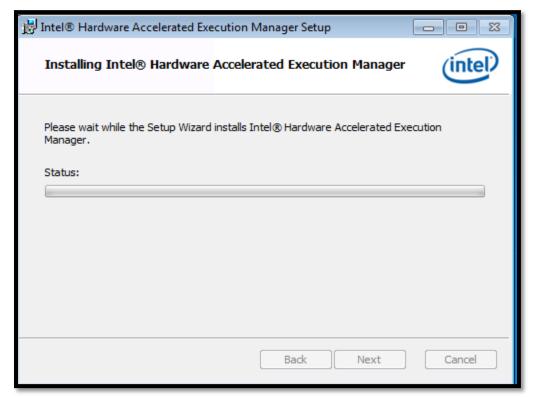
#### Click on Next...





## Click on Install...



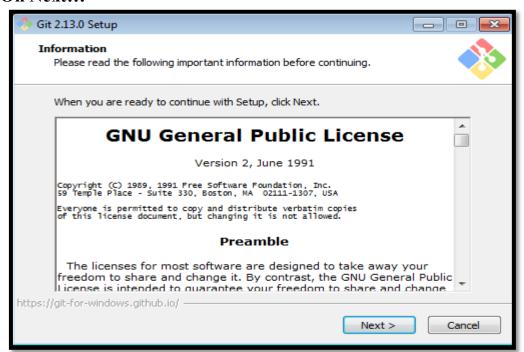


## Click On Finish...

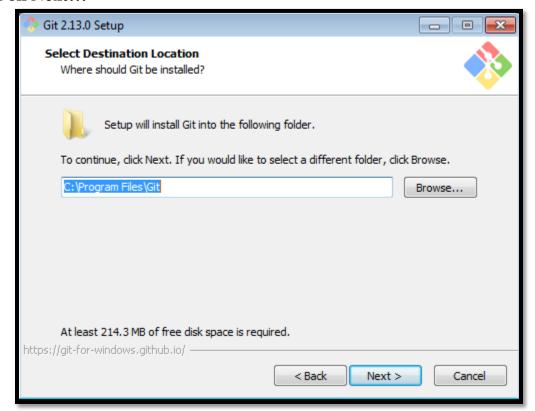


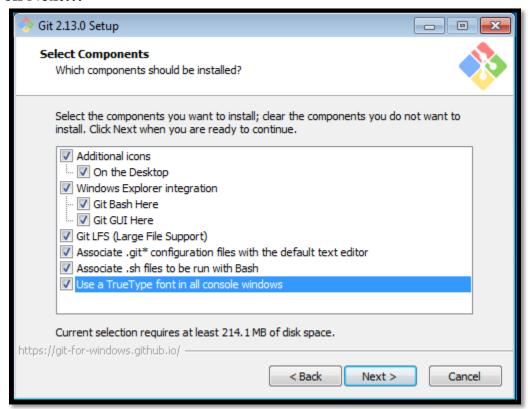
# 3. Step of Installation for Git Double Click on Git-2.13.0-64-bit Application File



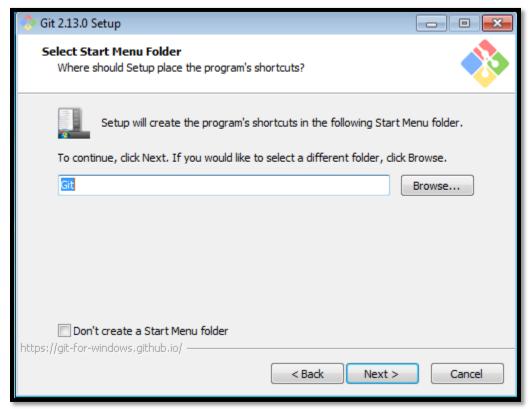


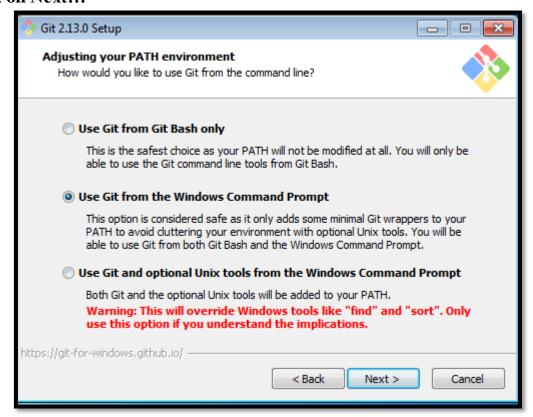
## Click on Next...



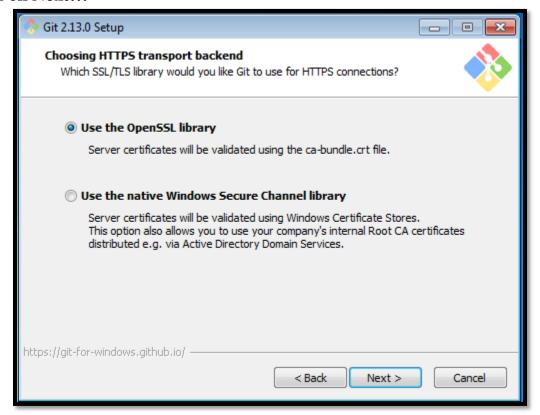


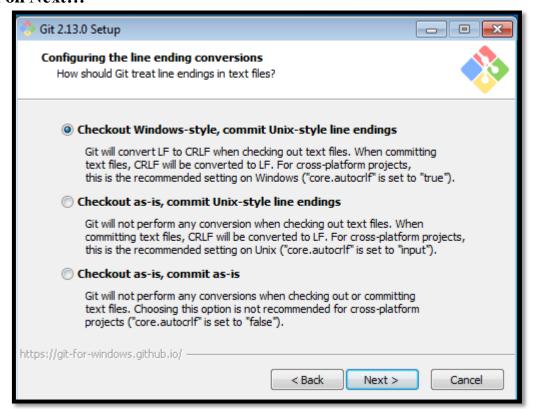
## Click on Next...



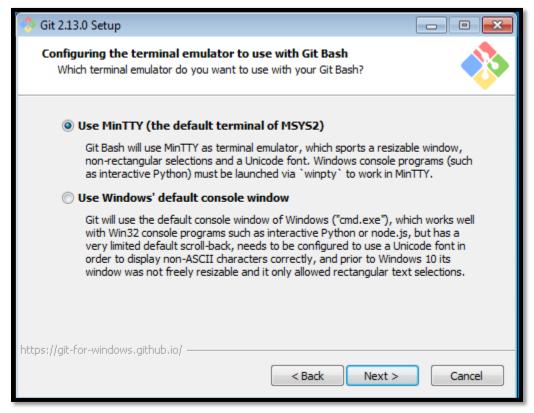


## Click on Next...

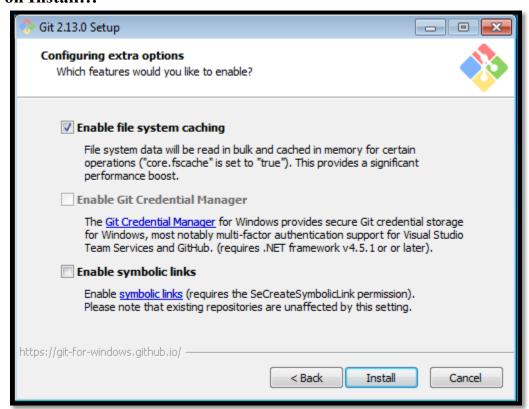


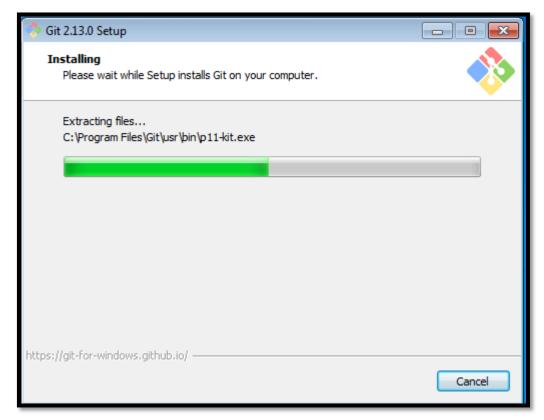


## Click on Next...



#### Click on Install...





## Click on Finish...



4. After Installation of Git we will copy the gradle-4.0-all file in C drive and extract the rar file and Rename it from gradle-4.0-all to Gradle.



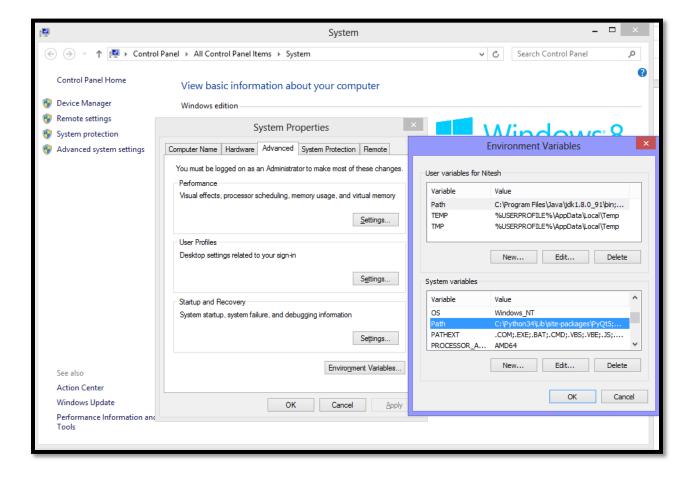
5. Extract the Android rar file and copy the Android Folder in following directory i.e.:

# C:\Users\Nitesh\AppData\Local



6. After All the Installation complete now we have to set the path of Android, Jdk, Git, and Node in System Path Environment Variable. Step of Path Step-up of Environment Variable path in System: Follow the step to open the Environment Variable Path of System

My Computer/This Pc→Properties→Advance System Setting→Environment Variables...



Then Set the Following Path:-

- 1. Set the JAVA\_Home Path:
  - ✓ C:\Program Files\Java\jdk1.8.0\_111
- 2. Set the GRADLE\_HOME Path:
  - ✓ C:\Gradle
- 3. Set the Path of ANDROID HOME Path:
  - ✓ C:\Users\vikas\AppData\Local\Android\sdk
- 4. Set the Other Required Path Also i.e.:
  - ✓ C:\Program Files\Git\bin
  - ✓ C:\Program Files\Git\cmd
  - ✓ C:\Program Files\nodejs
  - ✓ C:\Program Files\nodejs\node\_modules\npm\bin
  - ✓ C:\Program Files\Java\jdk1.8.0\_111
  - ✓ C:\Users\vikas\AppData\Roaming\npm
  - ✓ C:\Gradle\bin

After Setup of all Path Variable Open CMD and Type the Following to Check Weather the Software installed successfully or not.

1. Open Cmd and type the Following Command:

Check the version number of node and npm by using following command:

```
✓ node -v
✓ npm -v
```

```
Administrator: C:\Windows\System32\cmd.exe

C:\Windows\system32>node -v
v6.10.3

C:\Windows\system32>npm -v
3.10.10

C:\Windows\system32>
```

# **Step of Installation for Cordova**

# **Note:**

After all the Above Setup and Configuration Now we start with installation of Cordova Application by using the following command.

• Open Cmd and type the following command and wait a while to successful installation:

/ npm install –g cordova

• After Successful Installation Check the Version of Cordova by using following command:

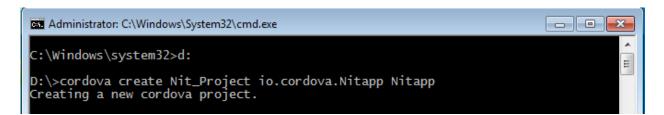
```
✓ cordova –v
```

Write yes and see the version of Cordova

Now Create the Cordova Project by Using the following Command and step:

- First Change the Drive Where you want to create the Project
- After changing the directory type the following command on Present Directory:

✓ cordova create Nit\_Project io.cordova.Nitapp Nitapp



• Check the directory weather project is created or not

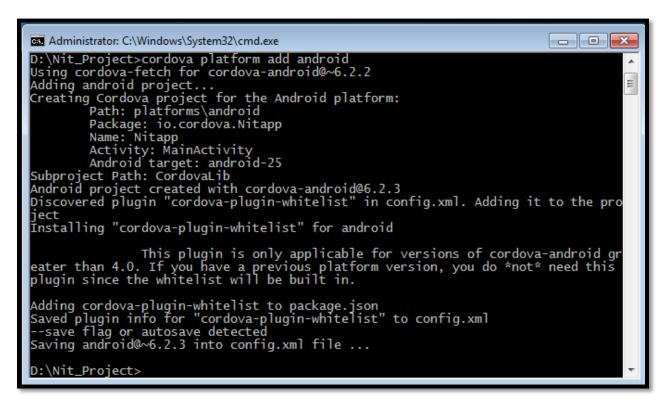
```
√ dir
```

• Move into the Project Directory & Add Android Platform through the Following command wait a while till platform added:

cordova platform add android

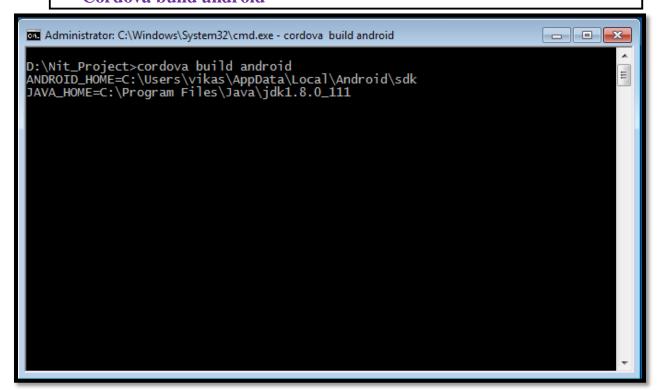
```
D:\>cd Nit_Project

D:\Nit_Project>cordova platform add android
Using cordova-fetch for cordova-android@~6.2.2
```

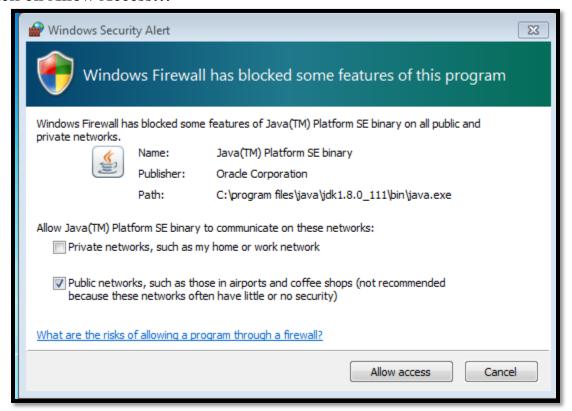


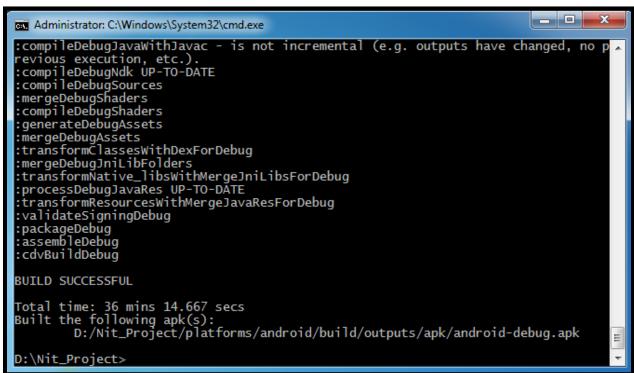
 Build the Android Platform in same Project directory by using following command and wait for a second:

## ✓ Cordova build android



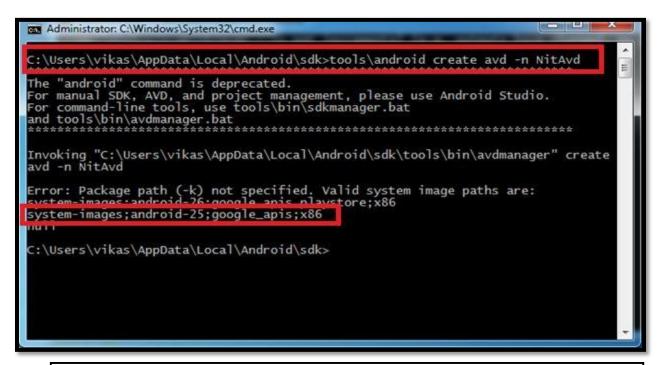
#### Click on Allow Access...





 Now Open Second cmd window and go Android Sdk directory create a AVD by Using following command:

✓ Tools\android create avd –n NitAvd



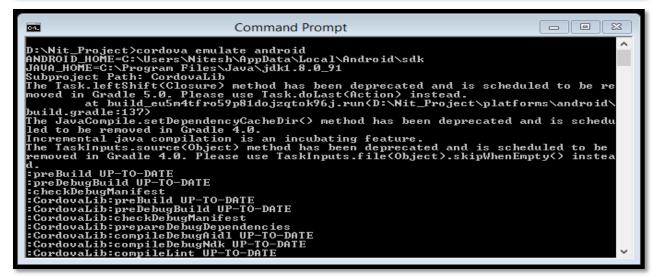
tool\android create avd -n NitAvd -k system-images;android-25;google\_apis;x86

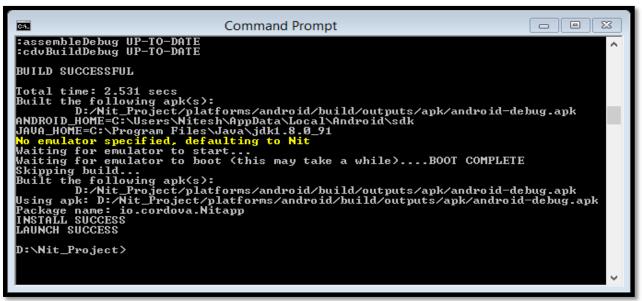
Check the AVD list and its version

tools\android list avd

• Now Move on Project Command Window and type the following command to Open the Android Emulator wait a while to open an Android Emulator:

⊂cordova emulate android





• After Install, Build and Launch Successful we will get the Emulator ...

