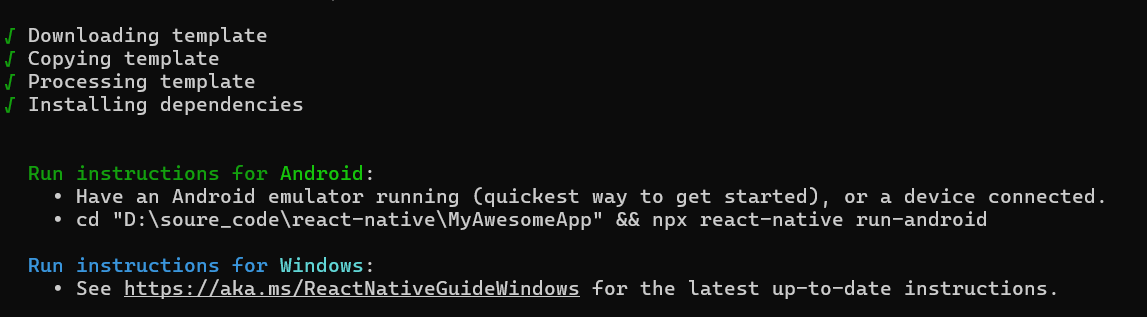
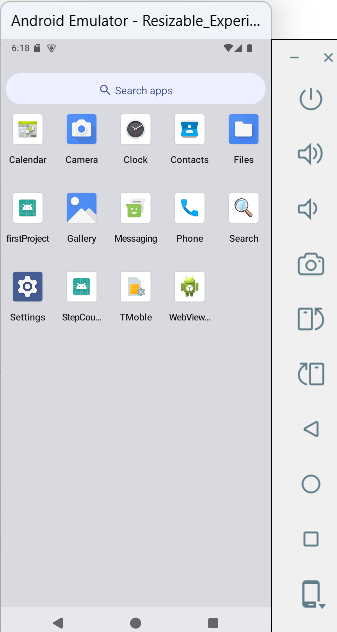
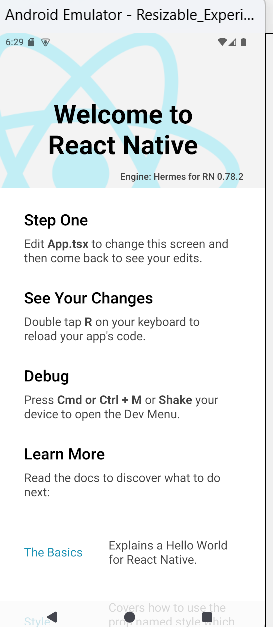
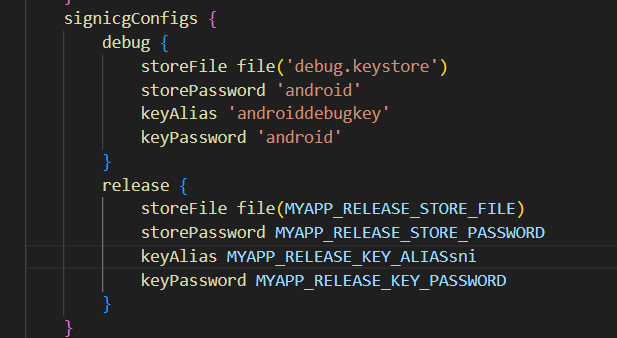
**Steps for creating React Native android application from scratch to apk file**

* React native is framework, that written in reactJS and java script. Maintained by Facebook. That used to create android and ios application mainly. It provides powerful UI component which make it more popular.

**Steps for React native installation in windows, creating application, deploying on AVD and creating APK file.**

1. install Chocolaty, (choco) it is a package manager through which we can install node, react native or other tools for devolvement.
   1. Install chocolaty from official link <https://chocolatey.org/install>
   2. Run this command in power shell to install choco.   
      **Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))**
   3. after installation of chocolaty, run command in shell. **Choco** it will return installed version.
   4. Run command power shell to install nodeJs and jdk
      1. **choco install -y nodejs-lts microsoft-openjdk17**
2. Install Android studio
   1. Download and install android from official link. https://reactnative.dev/docs/set-up-your-environment
3. Download SDK and emulator and Add Environment Variable
   1. Refer official link for installing SDK and creating AVD from link. (good internet connection and powerful machine require for speedy devel opment) [**https://reactnative.dev/docs/set-up-your-environment**](https://reactnative.dev/docs/set-up-your-environment)
4. Creating React native application from CLI, although we can create application from Expo tool also but CLI is basic of development to understanding flow.
   1. Run this command in CMD. **npx @react-native-community/cli init MyAwesomeApp**
   2. It will create welcome dummy, ready to run react native project in directory. Below is confirmation message
      1. 
   3. Run emulator from android studio
      1. 
5. Go to project directory and run below command to run the application on AVD. It will deploy your android application on AVD
   1. cd Your\_project\_name
   2. npx react-native run-android
   3. 
6. Build a Release APK
   1. Generate a KeyStore by run this command.   
      **keytool -genkeypair -v -keystore my-release-key.keystore -alias my-key-alias -keyalg RSA -keysize 2048 -validity 10000**
   2. it will ask few details like password, your name, organization, city state and country just put the details and create key file
   3. **It will create a .keystore file and that need save my-release-key.keystore file in android/app/ folder**
   4. Edit the android/gradle.properties file and add:
      1. **MYAPP\_RELEASE\_STORE\_FILE=my-release-key.keystore**
      2. **MYAPP\_RELEASE\_KEY\_ALIAS=my-key-alias**
      3. **MYAPP\_RELEASE\_STORE\_PASSWORD=your-store-password**
      4. **MYAPP\_RELEASE\_KEY\_PASSWORD=your-key-password**
7. Then edit android/app/build.gradle and release json details in signicgConfigs json like below
   1. 
8. Build the Release APK, run these commands
   1. **cd android**
   2. **./gradlew assembleRelease**
9. After successful message in commad line you will get you APK file in below location
   1. android/app/build/outputs/apk/release/app-release.apk

