CLANG++ MANUAL

- Create toolchain

python \$NDK/build/tools/make_standalone_toolchain.py --arch <abi> --api <level> -install-dir <path>

thach.phamminh@SA2WKS0415 D:\env\android-ndk-r16b\build\tools > python make_standalone_toolchain.py --arch arm --api 18 --install-dir D:\mtj\standalone_toolchain

- Extra toolchain from zip file
- Build object file

arm-linux-androideabi-clang++ -c ./src/Calculator.cpp -o ./bin/Calculator.o -I ./include -- sysroot=sysroot

thach.phamminh@SA2WKS0415 D:\mtj\write\android\NDK\Add_CPP Prebuilt_Library\prebuilt-libs-sam\app\calculator >
D:\mtj\toolchain\arm-linux-androideabi\bin\arm-linux-androideabi-clang++ -c ./src/Calculator.cpp -o ./bin/Calculator.o -I ./include --sysroot=D:\mtj\toolchain\arm-linux-androideabi\sysroot
-linux-androideabi\sysroot

- Build shared library

arm-linux-androideabi-clang++ -shared ./bin/Calculator.o -o ./lib/armeabi-v7a/libcalculator.so -- sysroot=sysroot

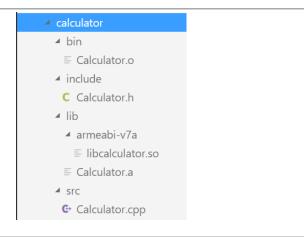
thach.phamminhgsA2WKS@415 D:\mtj\write\android\NDK\Add_CPP Prebuilt Library\prebuilt-libs-sam\app\calculator
> D:\mtj\toolchain\arm-linux-androideabi\bin\arm-linux-androideabi-clang++ -shared ./bin/Calculator.o -o ./lib/armeabi-v7a/libcalculator.so --sysroot=D:\mtj\toolchain\arm-linux-androideabi\sysroot
in\arm-linux-androideabi\sysroot

- Build static library

arm-linux-androideabi-ar.exe -rcs ./lib/Calculator.a ./bin/Calculator.o

thach.phamminh@SA2WKS0415 D:\mtj\write\android\NDK\Add_CPP_Prebuilt_Library\prebuilt-libs-sam\app\calculator.> D:\mtj\standalone_toolchain\bin\arm-linux-androideabi-ar.exe -rcs ./lib/Calculator.a ./bin/Calculator.o

- Folder tree overview



- Build script overview

```
MainActivity.java
                       build.bat X
 1
       @echo on
 2
       SET CC=D:\mtj\toolchain\arm-linux-androideabi\bin\arm-linux-androideabi-clang++
       SET SYSROOT=D:\mtj\toolchain\arm-linux-androideabi\sysroot
 4
 5
 6
      SET AR=D:\mtj\standalone_toolchain\bin\arm-linux-androideabi-ar.exe
 7
 8
      %CC% -c ./src/Calculator.cpp -o ./bin/Calculator.o -I ./include --sysroot=%SYSROOT%
 9
      %CC% -shared ./bin/Calculator.o -o ./lib/armeabi-v7a/libcalculator.so --sysroot=%SYSROOT%
 10
      %AR% -rcs ./lib/Calculator.a ./bin/Calculator.o
```