NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No: 12

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Roll No: 20

Batch: RMCA A

Date: 14/05/2022

Aim

Learn about Cmake[make and Cmake]

Procedure

Create a folder and add all the project files into it create a text file named as CmakeLists.txt and write all the list of project files to it keep the format as follow:

cmake_minimum_required(VERSION 3.10)
project(MyProject VERSION 0.0.1)
add_executable(hello hello_world.cpp)

here hello_word is my project file

Create a build folder and change directroy to it

Now build the project:

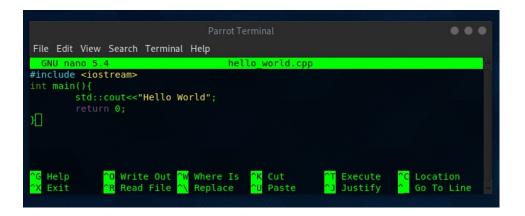
\$ cmake ..

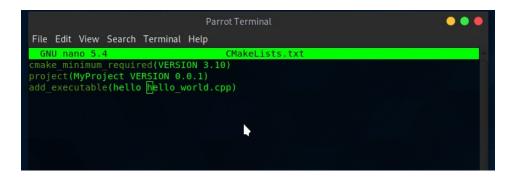
\$ cmake -build.

and extecute the project:

./hello //my executable name mentioned in CMakeLists

Output Screenshot





```
Parrot Terminal
File Edit View Search Terminal Help
  [allensphilip@SEC-ROG]—[~/MCA/ACN/Exp13]
  [allensphilip@SEC-ROG]—[~/MCA/ACN/Exp13]
— $nano CMakeLists.txt
   [allensphilip@SEC-ROG]—[~/MCA/ACN/Exp13]
     $mkdir build
   [allensphilip@SEC-ROG]—[~/MCA/ACN/Exp13]
   [allensphilip@SEC-ROG]—[~/MCA/ACN/Exp13/build]
   The CXX compiler identification is GNU 10.2.1
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Check for working C compiler: /usr/bin/cc - skipped
-- Detecting C compile features
-- Detecting C CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Check for working CXX compiler: /usr/bin/c++ - skipped
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Configuring done
-- Generating done
   Build files have been written to: /home/allensphilip/MCA/ACN/Exp13/build
  [allensphilip@SEC-ROG]—[~/MCA/ACN/Exp13/build
     $cmake --build .
Scanning dependencies of target hello
[ 50%] Building CXX object CMakeFiles/hello.dir/hello world.cpp.o
[100%] Linking CXX executable hello
[100%] Built target hello

[allensphilip@SEC-ROG]—[~/MCA/ACN/Exp13/build]
    $./hello
Hello World [allensphilip@SEC-ROG] = [~/MCA/ACN/Exp13/build]
     $
```