Gtest manual

This is a manual for running gtests.

Recommended OS - Ubuntu 20.04

Makefile commands are supposed to be run on wsl.

1. in terminal use this command to download googletest:

```
sudo apt-get install libgtest-dev
```

2. then download and install cmake:

```
sudo apt-get install cmake
```

3. then move yourself into the directory where gtest is located:

```
cd /usr/src/gtest
```

if there are any problems with locating gtest try this command to find it:

```
whereis gtest
```

4. in the gtest directory create CmakeLists.txt file:

```
sudo cmake CMakeLists.txt
```

5. use this command to build googletest

sudo make

Here you can see an example of the process:

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
cmake-data libjsoncppi librhash0
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
googletest
Use 'sudo apt autoremore
The following additional packages will be installed:
googletest
The following NEW packages will be installed:
googletest libgtest-dev
0 upgraded, 2 newly installed, 0 to remove and 278 not upgraded.
Need to get 0 8/2207 kB of arctives.
After this operation, 21.6 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Selecting previously unselected package googletest.
(Reading database ... 40238 files and directories currently installed.)
Preparing to unpack .../googletest_1.10.0-2_all.deb ...
Unpacking googletest (1.10.0-2) ...
Selecting previously unselected package libgtest-dev:amd64.
Preparing to unpack .../libgtest-dev 1.10.0-2_amd64.deb ...
Unpacking libgtest-dev:amd64 (1.10.0-2) ...
Setting up googletest (1.10.0-2) ...
Setting up libgtest-dev:amd64 (1.10.0-2) ...
   Civ.
                                                                             ...$ sudo apt-get install cmake
   Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
cmake-doc ninja-build
The following NEW packages will be installed:
 - Configuring done
- Generating done
- Build files have been written to: /usr/src/googletest/googletest
50%] Built target gtest
100%] Built target gtest main
*/usr/src/gtest$ _
```

Note: on 3rd picture step 3., 4., and 5. are executed at once