Lab 2 - Make utility

- 1) We add **#include <cmath>** at the top of our Lab1.app to correct an error during the production of the executable using G++.
- 2) To compile program in Cygwin, do:
 - If you have several disk, do the command : cd /cygdrive/c
 - Go to our cpp files
 - Do the command : g++ -o Main.exe Main.cpp Calculator2.cpp
 - Add the 3 librairies (cyggcc_s-seh-1.dll, cygstdc++-6.dll, cygwin1.dll) in our Lab folder with the cpp.
- 3) To create a makefile in Cygwin, do:
 - Do the command : touch makefile
 - Fill the created makefile with the corresponding macros (see the attached makefile to understand each line)
 - Save the makefile

To get an executable file from the make key in Cygwin, do:

- Do the command : make
- Launch the application from the executable file
- 4) To add other targets to the makefile in Cygwin, do:
 - Fill the makefile with the all, clean, install macros (see the attached makefile to understand each line)
 - Save the makefile
 - To remove all object and executables, do the command : make clean
 - To do all compilation and linking: make all
 - To copy the executable to your /usr/local/bin directory: make install
 - To run the program in the terminal : make run
- 5) Appendix:
 - A. Question n°3 photo:

```
Nicolas@DESKTOP-KURJJOV /cygdrive/c/Users/N
$ make
g++ -c -o Main.o Main.cpp
g++ -c -o Calculator2.o Calculator2.cpp
g++ -o Main ./Main.o ./Calculator2.o
```

B. Question n°4 photo n°1:

```
Nicolas@DESKTOP-KURJJOV /cygdriv
$ make clean
rm -f ./Main.o ./Calculator2.o
rm -f Main
```

C. Question n°4 photo n°2:

```
Nicolas@DESKTOP-KURJJOV /cygdrive/c/Users/N
$ make all
g++ -c -o Main.o Main.cpp
g++ -c -o Calculator2.o Calculator2.cpp
g++ -o Main ./Main.o ./Calculator2.o
```

D. Question n°4 photo n°3:

```
Nicolas@DESKTOP-KURJJOV /cygdrive/c/Users/Nicolas/Documents/EFREI/Cours/M1/Cours/Advanced C++
/Lab1/Lab1/Lab1
$ make install
cp -r "C:/Users/Nicolas/Documents/EFREI/Cours/M1/Cours/Advanced C++/Lab1/Lab1/Lab1/Main.exe"
"C:/cygwin64/usr/local/bin"
```

E. Question n°4 photo n°4:

```
Nicolas@DESKTOP-KURJJOV /cygdrive/

$ make run

./Main

Enter your operation: 4+4=

8
```