**CMPE 230 Homework 2**

**Student Name & Number:**

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**INTRODUCTION**

This project aims to generate a makefile with using python via traversing given directory. If the c files and the h files are given correctly, it generates the makefile, but if a file is included but not found,prints error message and does not generate the makefile and if an include file is present but not used,prints warning message and generates the makefile.

**Constraints:**

* If a file is included but not found, your tool should print error message.
* If an include file is present but not used, your tool should print warning message.

**Methods and classes that are used:**

**Class cFiles(object):**

It generates an object for c file with its path, name and included files

**Class hFiles(object):**

It generates an object for h file with its path and name

**Def make\_cFiles(path, name, includeFile):**

Method for generating c file objects

**Def make\_hFiles(path, name):**

Method for generating h file objects

**Def generateMakeFiles(cFilesAll,hFilesAll):**

Generates the makefile file and writes the necessary commands for c and h files with taking information from cFilesAll(keeps all the c files with its name, path,included files information) and from hFilesAll(keeps all the h files with its name, path information)