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**CMPE 230 HW2 PROJECT**

**PROBLEM:**

In this project, we must implement a makefile generator tool called **generatemakefile** for Clanguage source files in python language. We assume that a directory contains C language source code. The C source codecan also be located in the subdirectories. Our program will traverse the directories looking for **.c** and **.h** files. It should examine source files for preprocessor include statements. It should then generate a makefile with appropriate dependencies and actions. If there are errors, it should printthem.

**SOLUTION:**

To solve that case I used many list with different names all lists have different types of information like file paths “.h” files or “.c” files using that lists I traverse the directories and catch the my important information which I am looking for. For the screen messages like “Warning” or “Error” I used different list to show the implementation a makefile on the screen I used two different methods.

**Methods:**

makeFile:It is printing the format of “Prog.exe:…” on the screen.

MakeOfile: It is printing the “.o” format of “.c” and their “.h” files with directories on the screen.