Header files

Derrick

Header file

- .h extension.
- Contains C function prototype and macro definitions to be shared between several source files.
- Two types of header files
 - The files that come with your compiler #include <stdio.h>
 - Your header files #include "libvc.h"
- You don't need to compile header files. (more #1, #2)

Preprocessor

- Output preprocessed file: gcc -E -C -P source.c
 - -E: preprocessing
 - -C: do not discard comments
 - -P: no linemarkers in the output file
- gcc -E -C -P source.c > textfile
 - o > : redirect output

Parameterized Macros

 One of the powerful functions of the CPP is the ability to simulate functions using parameterized macros.

```
int square(int x)
   return x * x;
We can rewrite above the code using macro as follows -
#define SQUARE(x) ((x) * (x))
```

Example

Demo

Resources

- https://gcc.gnu.org/onlinedocs/gcc/Preprocessor-Options.html#Preprocessor-Options (gcc preprocessor options)
- https://www.tutorialspoint.com/cprogramming/c_preprocessors.htm