- OOP is a styla on how to write your code
- C++ doesn't mipl certain impies but support it
- way to grudata and functionalites together
- · Variables made of class are called object variables
 - $\circ \;\;$ And a new object is na instance of that class
- Defining a class we define the visibility of the variables and functions
 - o By default the visibility is private, need to specif as public to acces or protected
- · Fuctions inside classes are called methods
- USEFULL TO GROUP THINGS TOGETHER AND ADD FUNCTIONALITIES TO THE OBJECT

CLASSES in C++



CLASSES vs STRUCTS in C++

- Kind a similar one
- there is no much difference
- the main diference is the visibility options in structures (private, public, protected
 - Class is private by default
 - o struct the default is public
- But this is tecnicly, but the use in code may differ
- struct exists by bacward compatibility with previous versions
 - o the ompiler wouldn't know wht it was in old codes
- · The usage differs
 - o That is no right or wrong answer, differ by opinion
- struct used just to represent variables
- Never use a structure with inherence, go to classes

How to Write a C++ Class

- Log class to manage the log messages, used for debug process
- console is like na information dump
- Defined simple functions, member variables (public and private)
- · Instantiated in main and also used the public functions

Static in C++

- 2 meanins,
 - o outside of a class
 - Linkage of that symbel will be internal, only visible to that transation unit that you are working with (translation unit = file)
 - Inside of a class
 - All instances of that class will share the same memory, will only be one instance of that static variable across all instances of the class
- Focus on static outside of a class