

Calculator

Sum Feature

The **sum** function is a core component of the calculator program written in C. It is responsible for calculating the sum of two numeric values provided by the user.

```
#include "sum.h"

float add(float a, float b)
{
    return a + b;
}
```

Functionality:

- Accepts two input values (integers or floating-point numbers).
- Computes and returns the sum of the two values.

CMakeLists.txt File

The **CMakeLists.txt** file is a build configuration file used by CMake, a popular build system generator. Its purpose in a project is to define how the project should be built, including specifying source files, dependencies, and build targets.

```
CMAKE_MINIMUM_REQUIRED(VERSION 3.2)
```

- **Functionality:** Specifies the minimum version of CMake required to process this file. Ensures compatibility and prevents issues with older versions of CMake.

```
project(SumFeature C)
```

- **Functionality:** Defines the project name (SumFeature) and the programming language used (C).

```
include_directories(${PROJECT_SOURCE_DIR}/inc)
```

- **Functionality:** Adds the inc directory (located in the project's root directory) to the list of include paths for the compiler. This allows the compiler to find header files located in the inc directory when processing #include statements.

```
file(GLOB SUM_SRC ${PROJECT_SOURCE_DIR}/src/*.c)
```

- **Functionality:** Uses the file(GLOB ...) command to collect all .c files in the src directory and stores their paths in the SUM_SRC variable and dynamically includes all source files from the src directory, so you don't need to manually specify them.

```
add_library(SumFeature STATIC ${SUM_SRC})
```

- **Functionality:** Creates a static library named *SumFeature* using the source files listed in the *SUM_SRC* variable and bundles the source files into a reusable static library that can be linked to other parts of the program or other projects.



[Batman Song](#)