## **Assert using Boost library**

## **Methods:**

- BOOST\_ASSERT:
  - o gives
    - nothing if the expression is *true*.
    - the error (without message) if the expression is *false*.
  - syntax: BOOST\_ASSERT(expr)
  - example (/F:/Coding/github\_repos/cppplayground/libs/boost/examples/assert/assert.cpp)
- BOOST\_ASSERT\_MSG:
  - o gives:
    - nothing if the expression is true.
    - the error (with custom message) if the expression is false.
  - syntax: BOOST\_ASSERT\_MSG(expr, msg)
  - example (/F:/Coding/github\_repos/cppplayground/libs/boost/examples/assert/assert\_msg.cpp)
- BOOST\_VERIFY:
  - gives:
    - nothing if the expression is evaluated correctly.
    - the error (without message) if the expression is NOT VALID.
  - syntax: BOOST\_VERIFY(expr)
  - example (/F:/Coding/github\_repos/cppplayground/libs/boost/examples/assert/verify.cpp)
- BOOST\_ASSERT\_MSG:
  - gives:
    - nothing if the expression is evaluated correctly.
    - the error (with custom message) if the expression is NOT VALID.
  - syntax: BOOST\_ASSERT\_MSG(expr, msg)
  - example (/F:/Coding/github\_repos/cppplayground/libs/boost/examples/assert/verify\_msg.cpp)

- Using macros: To disable, mention before #include <boost/assert.hpp> line in the source/header file. <a href="mailto:example">example (/F:/Coding/github\_repos/cpp-</a>
  playground/libs/boost/examples/assert/assert\_enable\_disable.cpp)
  - #define BOOST\_DISABLE\_ASSERTS: disable assert methods
  - #define NDEBUG : disable assert methods
  - #define BOOST\_ENABLE\_ASSERTS: enable assert methods. Enabled by default.

## It affects both the assert & verify (with/without msg)

- assert\_custom\_func
  - o gives:
    - nothing if the expression is true.
    - the error (with custom message) if the expression is *false*.
  - doesn't use any library
  - o arg-1: bool expression
  - o arg-2: lambda func