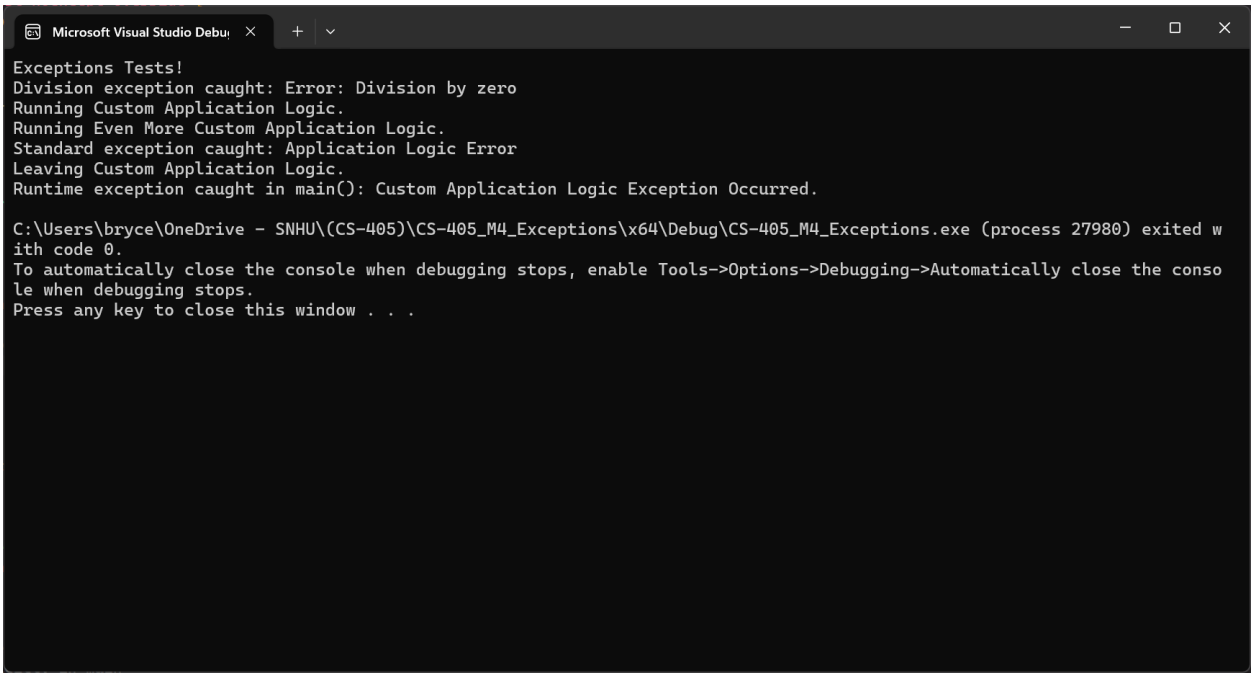
Bryce Jensen
CS-405-10914
4-1 Activity: Exceptions
10/1/24



A new CustomException class, derived from std::exception, was created. It overrides the what() method to provide a custom error message. The custom exception is thrown from do_custom_application_logic() and caught explicitly in main().

The do_even_more_custom_application_logic() function now throws a std::runtime_error with message "Application Logic Error".

A try-catch block was added around the call to do_even_more_custom_application_logic() to catch any std::exception. It then outputs a message and the what() message from the exception. After this, a custom CustomException is thrown.

In the divide() function, a check for division by zero was added, throwing a std::invalid_argument exception when den == 0.

In the do_division() function a try-catch block was added in do_division() to catch

std::invalid_argument exceptions specifically, and an error message is displayed if the division by zero is attempted.

Using a try- catch block, exception handling was added in main() for: custom exceptions (specifically CustomException), standard exceptions (std::exception), any other uncaught exceptions (catch(...)).