Exception Handling

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Module 4-1 Activity: Exceptions

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Text

Description automatically generated

For this week’s assignment on Exceptions, I modified the provided code with a few updates to create, throw, and catch standard as well as custom exceptions. The first exception thrown is a custom exception. I implemented a what() function and when it is caught, it displays “Custom Exception Thrown.” The next function is used to throw the standard exception. When the custom application logic is thrown, it displays “Standard Exception Thrown.” The next function is another customer application logic. I use a try block which runs the function previously stated and it catches the exception. The function then terminates due to the customer exception being thrown. The next functions I use a try block which determines the divide by zero. If the denominator equals to zero(true) then it throws the invalid argument. When zero is detected, it reads, “Invalid Argument Detected: Divide by zero runtime error.” Lastly, the main function runs using a try block. I implemented a catch for the custom exception as well as the standard and uncaught exceptions. This is used if they are not previously caught.