Week 14-15

Q8. Program with multiple catch statements

#include <iostream>

using namespace std;

int main() {

double numerator, denominator;

cout << "Enter numerator: ";

cin >> numerator;

cout << "Enter denominator: ";

cin >> denominator;

try {

if (denominator == 0) {

throw runtime\_error("Error: Division by zero!"); // Throw for division by zero

}

if (numerator < 0) {

throw invalid\_argument("Error: Numerator cannot be negative!"); // Throw for negative numerator

}

double result = numerator / denominator; // Perform division

cout << "Result: " << result << endl;

} catch (const runtime\_error& e) {

cout << e.what() << endl; // Catch and display division by zero error

} catch (const invalid\_argument& e) {

cout << e.what() << endl; // Catch and display negative numerator error

} catch (...) {

cout << "Unexpected error occurred!" << endl; // Catch any other exceptions

}

return 0;

}