/\* ASSIGNMENT NO. 6

PROBLEM STATEMENT: Exception Handling

Design a program with the following functionalities:

1. A function to read two numbers(Double type)

2. A function to calculate division of these two numbers

3. A try block to detect and throw an exception when divide by zero condition occurs

4. Appropriate catch block to handle the exception thrown\*/

**PROGRAM:**

#include <iostream>

#include <exception>

using namespace std;

class Test : public exception {

public:

double num1;

double num2;

void accept();

void division();

const char\* what() {

return "Divide By Zero Exception\n";

}

};

void Test::accept() {

cout << "Enter first number: "<<endl; cin >> num1; cout << "Enter second number: "<<endl; cin >> num2;

}

void Test::division() {

cout << "Division of two numbers: " << num1 / num2 << endl;

}

int main() { Test t; try {

t.accept(); if (t.num2 == 0) {

throw t; // Throw the Test class object if num2 is zero

} else {

t.division(); // Perform division if num2 is not zero

}

}

catch (Test& a) { // Catch the custom exception by reference

cout << a.what(); // Print the exception message

}

return 0;

}

