 **Department of Computer Software Engineering**

University of Engineering & Technology, Mardan

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| **Target CLO-1, CLO-2, CLO-3, CLO-5 PLO-3, PLO-5, PLO-11, PLO-10** |

**Lab Number**

**Software Construction and Development Lab**

**Name:** **Roll No:**

**Semester: 5th Total Marks: 12**

**Instructor: Engr. Muhammad Humayun Khan**

**ERROR HANDLING & EXCEPTION HANDLING**

**Question: Perform the following tasks using any programming language and IDE**

1. Ask user to provide values for two integers such as a & b and calculate a / a-b. Check the exception handling error if the user provide any value that is throwing an error.
2. Show a conditional expression that returns either a double or an int. Provide an int **catch handler** and a double catch handler. Show that only the double catch handler executes regardless of whether the int or the double is returned.
3. Suppose a program throws an exception and the appropriate exception handler begins executing. Now suppose that the exception handler itself throws the same exception. Does this create an infinite recursion? Write a program to check your observation.
4. Write a class that has one constructor and a destructor only with a string of your own choice. Create class object inside the try block, throw any integer to the catch block and write any string after the throw handler. Determine your output as whether the string after the throw handler executes or not.
5. Write a program which shows that all destructors for objects constructed in a block are called before an exception is thrown from that block.