National University of Computer and Emerging Sciences



Lab Exercise 15

For

Object Oriented Programming Lab

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| Lab Instructor(s) | Mr. Mughees Ismail |
| Semester | Spring 2020 |

**FAST School of Computing**

# Instructions:

1. Make a word document with the naming convention “SECTION\_ LAB#\_ROLLNO” and put all your source code and snapshots of its output in it. Make sure your word file is formatted properly.
2. Plagiarism is strictly prohibited.
3. Do not discuss solutions with one another.
4. Feel free to explore the internet but do not copy.
5. Try coming up with a unique solution with whatever you have studied in OOP.

# Useful links:

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| **Question#1** |

Write a class **Calculator** which will perform the functionalities of calculator having two private attributes and having functions add, subtract, multiply, divide. Use exception handling for validating input for all possible cases.

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| **Question#2** |

Write a program illustrating that all destructors for objects

constructed in a block are called before an exception is thrown from that block.

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| **Question#3** |

Write a program that throws an exception from a deeply nested function

and still has the catch handler following the try block enclosing the initial call in main catch

the exception.