Advanced Programming in C++
Winter Semester 2023

HOMEWORK 5: Exceptions

1. Define an exception that can identify division with zero in a calculator code and take counter measures to solve the problem.

2. Create a console-based application for calculating square root of N, logarithm base 2 of N, and prime numbers to a given limit N. N should be provided by the user and you should utilize exceptions defined by you to catch errors at any point in the program.

3. List and describe at least 5 standard C++ exceptions. Explain if other languages (such as Java) support exceptions and how they are integrated within the language.