The University of Melbourne
School of Computing and Information Systems

COMP90041
Programming and Software Development
Second Semester, 2018

Lab 10 — Programming Practice (Week 11)

Exceptions

Workshop Exercises

These are just for practice, and will not be assessed.

1. Write a complete Java program that prompts the user for, and uses `nextInt()` to read in, two nonnegative integer numbers. Use a `try/catch` block to handle the `InputMismatchException` that is thrown if the user types in something other than an integer. In this case, print a suitable error message and exit the program.

Homework

These will also not be assessed.

2. Define an exception class called `NegativeNumberException`. The class should have a constructor with no parameters. If an exception is thrown with this zero-argument constructor, `getMessage` should return "Negative Number Not Allowed!". The class should also have a constructor with a single parameter of type String. If an exception is thrown with this constructor, then `getMessage` returns the value that was used as an argument to the constructor.

3. Revise the program in Exercise 1 above to use your new `NegativeNumberException`. Write a (static) method to print a prompt and read in a non-negative number. It should throw a `NegativeNumberException` if a negative number is entered. Then modify your `main` to catch `NegativeNumberException` as well as `InputMismatchException` and print a suitable error message in each case.