

CSC 2111 Lab 18

Objectives:

1. Handling exceptions within a program
2. Using *try/catch* block

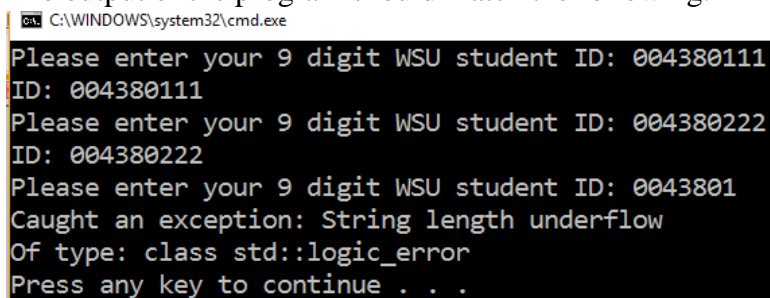
Question 1:

Design a program that will repeatedly ask the user to enter student ID (9 digit). If the entered ID is less or greater than 9 digits, the program will **throw an exception**, generate appropriate error message and terminate. Write this program using the following function declaration:

```
/**
 * Prompts the user to input 9 digit WSU student id and
 * returns the id
 *
 * If the length of the student id is < 9 or > 9,
 * a logic_error exception is thrown
 */

string getID();
```

The output of the program should match the following:



```
C:\WINDOWS\system32\cmd.exe
Please enter your 9 digit WSU student ID: 004380111
ID: 004380111
Please enter your 9 digit WSU student ID: 004380222
ID: 004380222
Please enter your 9 digit WSU student ID: 0043801
Caught an exception: String length underflow
Of type: class std::logic_error
Press any key to continue . . .
```