

**CS 210**  
**Assignment 05**  
**Simple Calculator**

**September 27, 2016**  
**Due: October 6, 2016**

Reminder: This is a programming project, and work on this assignment should be done individually. Assistance from other students is limited to questions about specific issues as noted in the syllabus.

For this project you will write a C program which does the calculator functions: add (+), subtract (-), multiply (\*), divide (/), and exponents (^). The user will enter each operator along with a number on a single line. Your program will separate the operator from the number, perform the operation indicated, show the result, and continue until the user enters a symbol to exit (q).

Here is an example run:

```
+ 4
result = 4.0
/ 2
result = 2.0
^ 6
result = 64.9
- 10
result = 54.0
q 0
final result is 54.0
```

Your program must have the following functions:

**GetInput** – returns a void and has two output parameters for the number and operator

**DoOperation** – has two input parameters, the number and the operation, and one input/output parameter, the accumulated result. It returns a void.

**Instructions** – has no parameters and returns a void but prints instructions.

Turn in a zipped project file. Name your zipped file Asn05XXX.zip where XXX are your three initials. Upload your zipped project file to \\cecsfp01\users\everyone\CS210.