

HW0: Hello World

CSS 501 – Data Structures & Object-Oriented Programming

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Summary

Basic C++ works much like other programming languages without having to use headers or pointers. This homework is an exercise to get you started on the basics of using C++ variables, expressions, functions, operators, loops, and conditionals.

Skills Expected

- Basic C++

Assignment Description (and grading criteria)

Write a program that calculates the power given the base number and power to calculate (up to a reasonable amount – explain your reasoning in a comment)

e.g. base = 2, power = 5 $\rightarrow 2^5 = 32$

- **(1 Point)** Obtain a base number and power to calculate from user
- **(2 Points)** Handle negative and positive base numbers
- **(2 Points)** Handle negative, zero, and positive powers
- **(2 Points)** Allow user to continue calculating powers (base number 0 to exit program)
- **(1 Point)** Block comment at the top of the main function with a brief description of what you'd like to see technology do in the future (e.g. "I want an Iron Man Suit!")
- **(1 Point)** At least one in-line or single-line comment with a brief description of what the statement does
- **(1 Point)** Descriptive variable names