

Python Programming

Offensive and Defensive Tool Construction

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Offensive and Defensive Tool Construction

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Objectives

This lab focuses on the following objectives:

* Analyze some code and create a report
* Effectively work in a group setting to efficiently complete an assignment.

Background Reading

# Important Information

**YOU MUST PRESENT IMAGES OF YOUR CODE BEING EXECUTED. DO NOT SUBMIT YOUR ANSWERS IN THIS DOCUMENT. CREATE A BLANK DOCUMENT AND SUBMIT YOUR ANSWERS THERE.**

**YOU WILL LOSE MARKS FOR NOT FOLLOWING THE ABOVE REQUIREMENTS.**

# Problem 1 30 pts

Do a writeup (**informal**) explaining how the code works and what the end result of the bonus assignment was trying to accomplish.

1. Show screen capture of relevant output
2. Explain what the original code does
3. Explain what the final code does by testing it.

Each person in the group should be able to answer any question about the material you submit. In other words, take the time to explain it to each other.

**Things like these have a strange way of showing up on quizzes and tests!!!**

## Requirements:

1. In groups of **NO MORE THAN 3** **PEOPLE/GROUP:**
2. **Only 1 submission is required, use the D2L group submission**

Here is some more information regarding CTYPES that may be helpful as you work your way through the lab.7

**WARNING**: The ctypes module is challenging on a good day. Try to focus on the areas that you need right now and don’t try to consume it all in one sitting.

It will take a few sips to understand the information presented deeply.

**RESOURCES: (no particular order)**

[**https://docs.python.org/3/library/ctypes.html#module-ctypes**](https://docs.python.org/3/library/ctypes.html#module-ctypes)

[**https://docs.python.org/3/library/ctypes.html#specifying-the-required-argument-types-function-prototypes**](https://docs.python.org/3/library/ctypes.html#specifying-the-required-argument-types-function-prototypes)

[**https://docs.python.org/3/library/ctypes.html#type-conversions**](https://docs.python.org/3/library/ctypes.html#type-conversions)

[**https://docs.python.org/3/library/ctypes.html#return-types**](https://docs.python.org/3/library/ctypes.html#return-types)

1. Strucure your documentation in such a way that it is easy to understand.

You don’t need to create a Table of Contents or References but they are nice to have if you decide to put them.

The assignment is worth 6% with a BONUS of 1% if you figure out the answer to the message that gets printed to the screen.

To get the full 1% you will need to:

1. Show the output screen capture of the failed execution of the program
2. Show screen capture of the corrected program
3. Explanation of what was done to achieve this.