Lab Instructions:

Save the code you write for each exercise in this lab as a *library* -- that is, a textfile with a .py extension containing only executable python code (i.e. no angle-bracket prompts, etc). Name each file according to the exercise number (e.g. ex1.py, ex2.py, etc.) and save them to a directory containing the report file (in PDF), when completed, compress them together in a single zip file to be submitted on D2L.

Each function should have a docstring explaining what the function does. Any Follow-up Questions and their Answers should be included in a **docstring** following the main() function.

e.g. the structure for a Python module should look like:

```
modulename.py
  Doc-string explaining what this module does

""
# imports, such as math, random, etc., as needed

# Your code, includes definitions of classes, functions, etc.
def ...
def ...

def main():
    # Do what is needed.

if __name__ == "__main__":
    main()

Doc-string answering follow up questions
```

<u>Lab Deliverable</u>: Once all your programs run correctly, collect their code and the results of their test-cases in a nicely-formatted **PDF** file exported from Word Processing document (e.g. MS Word or LibreOffice) to be included in the submission on D2L.

This **report** should consist of each lab exercise, clearly **labeled** <u>in</u> <u>order</u>, consisting of code, then copy/pasted text output, or, for GUI, screen-captured, of its four test-cases. In this lab, take series of screen captures of your GUIs and insert them into the report.

Exercise

- 1. From page 145, #9: Modify the Hot Potato simulation to allow for a randomly chosen counting value so that each pass is not predictable from the previous one.
- 2. From page 146, #12: Extend the program from Listing 3.15 to handle parlindromes with spaces. For example, I PREFER PI is a parlindrome that reads the same forward and backward if you ignore the blank characters.