# T17: Tkinter Tinkering

* Assignment T17 should be completed in a team of two.
* To begin, go to “File” and Select “Make a Copy...”
* Move your copy of the document to the folder for your section.
* Rename the file to T17: Tkinter Tinkering - usernames (replace usernames with your usernames). To do this, click the label in the top left corner of your browser.

## Learning Objectives

* Explore the components of the Tkinter library

This teamwork is designed to help you to explore using the Tkinter module to make a Graphical User Interface (GUI). Tkinter is perhaps the most popular Python module for GUI construction.

First, download the following:

* [t17\_tkinter.py](https://drive.google.com/open?id=0B0J8Yj0B6KRSYmRDWUZIMnQtdkU)

What you will see is a class called MyTkinter. This class is used to create a Python window with a button, textbox, and label. When the button is pressed, a handler gets information from the textbox and then updates the label.

The main objective of this assignment is for you to learn to create a GUI in Python. I recommend you do something which makes you happy. You might consider doing one of the following:

* Make a MabLib game
* Make a guessing game where the computer thinks of a number between 1 and 10 and the user has to keep guessing until they find the correct number.
* Make a math tutorial for a child where random integers are displayed and the child has to determine their correct sum.
* Anything else which uses a GUI. Warning: Keep it scoped appropriately to finish it in class!

Tkinter also has GUI widgets to make drop-down menus and scroll bars, display images, etc. You can learn more about using Tkinter at <https://docs.python.org/3/library/tkinter.html>.

## Submission Instructions

1. (Submitter) Save the file you created as **T17\_tkinter\_usernames.py**. Replace usernames with your Berea usernames.  
   **NOTE**: Incorrect filenames will automatically reduce your grade by 1 point. Fortunately, the format is always the same no matter what the assignment.
2. (Submitter) Upload the file to Moodle by the due date listed on the course website: <https://trello.com/b/w7bIrLoV/>.
3. (All Other Partners) Open up Wordpad. Create a new text document (.txt) and include all members names in it.
4. (All Other Partners) Save the document as **T17\_tkinter\_usernames.txt**. Replace usernames with your Berea usernames.
5. (All Other Partners) Upload the document to Moodle by the due date listed on the course website: <https://trello.com/b/w7bIrLoV/>.