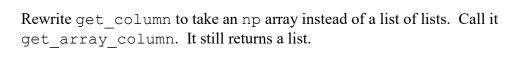**ISTA 350 Potpourri Worksheet**   **Name:**

Write a function called `get_obj` that gets a filename from the user with the prompt `"Type filename or hit enter to quit: "`. If the filename is not the empty string, enter a loop that will repeat until the following tasks are successfully completed or the user gives up and hits enter. Inside the loop, code a `try/except` block that attempts to open the file, load a json object from it, print the type of the object, print the object, and finally return the object. Use the `with` statement to open the file. If a runtime error occurs (how can this happen?), print `'Bad or missing file'` and prompt again. After the loop, print `'No file selected.'` and return `None`.

Write a function called `get_column` that grabs a column from a list of lists. First argument: the list of lists; second: the column index. Return a list.

Rewrite `get_column` to take an `np` array instead of a list of lists. Call it `get_array_column`. It still returns a list.

Write a function called `longest_words` that takes a filename and returns a list of all of the words that have maximum length in the file. You will have to get rid of punctuation (hint: there is a module called `string` that contains a string with all punctuation marks that you can refer to as `string.punctuation`).