# Python Topics for The Final Exam Stevensct02

1. **Python Syntax and Basics**
   * Variables and data types (int, float, str, bool)
   * Basic input and output (print(), input())
   * Arithmetic, logical, and comparison operators
   * Comments and code style (PEP 8)
2. **Control Structures**
   * Conditional statements (if, elif, else)
   * Loops (for, while)
   * break, continue, and pass keywords
3. **Functions**
   * Defining functions using def
   * Function parameters and arguments (including \*args and \*\*kwargs)
   * Default argument values
   * Variable scope (local and global)
   * Lambda functions
4. **Data Structures**
   * Lists, tuples, sets, and dictionaries
   * Common list methods (append(), remove(), sort(), etc.)
   * Iterating through data structures
5. **File Handling**
   * Opening and closing files (open(), read(), write())
   * Using context managers (with open())
   * Reading and writing to text and CSV files
6. **Git and GitHub**
   * How Git and GitHub work
   * Explanation of the process for including changes in a local repository (working directory, staging area, and local repository)
   * Commands to include changes in a local repository (git status, git add, and git commit -m ‘comment’)
   * How to push a local repository to a remote repository
   * ¿What is the library called to integrate Git and Python?