



# Test

## Python File Handling (Write, Append & Create Files) - Test

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### Part A: Multiple Choice Questions (MCQs)

Choose the correct answer for each question:

1. What does the `"w"` mode do in Python file handling?
  - a) Opens a file for reading only
  - b) Opens a file for appending
  - c) Opens a file for writing and truncates it if it exists
  - d) Creates a new file and appends to it
2. What is the effect of the `"a"` mode in file operations?
  - a) Overwrites the entire file
  - b) Reads the file only
  - c) Appends content to the end of the file without truncating it
  - d) Creates a temporary file
3. What will happen if you use `"x"` mode to open a file that already exists?
  - a) File will be opened normally
  - b) File will be overwritten
  - c) A new file will be created
  - d) A `FileExistsError` will be raised
4. Which statement correctly creates a new file and writes data into it?
  - a) `open("file.txt", "r").write("data")`
  - b) `open("file.txt", "a").write("data")`

- c) `open("file.txt", "w").write("data")`
  - d) `open("file.txt", "x").write("data")`
5. Which mode should be used if you want to ensure that the file is created but not overwritten?
- a) `"w"`
  - b) `"a"`
  - c) `"x"`
  - d) `"r"`
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## Part B: Practical Questions

1. Write a Python program to create a new file `data.txt` using `"x"` mode and write the string "New file created." to it. Handle the error if the file already exists.
  2. Create a program that writes the text "Start of log" to `log.txt` using `"w"` mode, then appends "Log updated" using `"a"` mode. Print the contents of the file.
  3. Write a function `append_names(filename, names)` that appends a list of names to the file, each on a new line.
  4. Create a Python script that checks if `notes.txt` exists. If it doesn't, create it using `"x"` mode. If it does, append "Checked on " using `"a"` mode. Use the `datetime` module.
  5. Write a program to read a file `input.txt`, convert its contents to uppercase, and write the results to `output.txt` using `"w"` mode.
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