

## Python File Handling & Exception Handling Quiz: 25 Multiple-Choice Questions

1. Which built-in function is primarily used to open a file in Python?

- A. read()
- B. open()
- C. file\_open()
- D. get\_file()

Answer: B

2. What is the correct syntax for opening a file named data.txt in read mode?

- A. `f = open("data.txt", mode="r")`
- B. `f = open("r", "data.txt")`
- C. `f = open("data.txt", mode="w")`
- D. `f = open("data.txt", read_only=True)`

Answer: A

3. Which file mode is used to open a file for writing (creating a new file or overwriting an existing one)?

- A. 'r'
- B. 'a'
- C. 'w'
- D. 'x'

Answer: C

4. Which file mode is used to open a file for appending (adding content to the end of the file)?

A. 'r'

B. 'a'

C. 'w'

D. 'x'

Answer: B

5. What method is used to write a string to an open file object f?

A. f.add\_line("text")

B. f.write("text")

C. f.output("text")

D. f.print("text")

Answer: B

6. What is the best practice for ensuring a file is automatically closed, even if errors occur?

A. Using the f.close() method at the end of the code.

B. Using the try...except block.

C. Using the with open(...) as f: statement.

D. Python closes files automatically, so nothing is needed.

Answer: C

7. What does the file method f.readline() do?

A. Reads all lines from the file into a list.

B. Reads the entire content of the file as a single string.

C. Reads only the next single line from the file.

D. Writes a single line to the file.

Answer: C

8. When reading the entire content of a file, which method returns the content as a single string?

- A. `f.readline()`
- B. `f.readlines()`
- C. `f.read()`
- D. `f.get_all()`

Answer: C

9. What is the purpose of the try block in exception handling?

- A. It defines the code that must always run.
- B. It defines the code to run if an error occurs.
- C. It defines the code where the error is expected to occur.
- D. It defines the cleanup code.

Answer: C

10. Which block of code handles an error when it occurs within the try block?

- A. `finally`
- B. `else`
- C. `except`
- D. `pass`

Answer: C

11. What happens if a specific exception is raised in the try block, but the corresponding except block for that exception is missing?

- A. The program ignores the error.
- B. The program crashes and displays the error message.
- C. The program continues running without any issue.
- D. The finally block runs, and then the program continues.

Answer: B

12. Which built-in exception occurs when you try to use a variable that has not been defined?

- A. TypeError
- B. ValueError
- C. NameError
- D. IndexError

Answer: C

13. Which built-in exception occurs when you try to access an index outside the bounds of a List or Tuple?

- A. KeyError
- B. IndexError
- C. SyntaxError
- D. AttributeError

Answer: B

14. What common exception occurs when attempting to convert a non-numeric string (e.g., "hello") into an integer using int()?

- A. NameError
- B. ValueError
- C. TypeError
- D. IOError

Answer: B

15. What is the purpose of the finally block?

- A. It only runs if the try block succeeds.
- B. It only runs if an exception occurs.
- C. It always runs, regardless of whether an exception occurred or not.
- D. It is used to define the function's return value.

Answer: C

16. What does the file mode 'r+' allow you to do?

- A. Read-only access.
- B. Write-only access (overwrites existing file).
- C. Read and write access (pointer starts at the beginning).
- D. Append and read access.

Answer: C

17. Which operator is commonly used to catch an exception and assign the error object to a variable (e.g., except SomeError as e: )?

- A. is
- B. to
- C. and
- D. as

Answer: D

18. What is the output of the following code if my\_list = [10, 20, 30]?

Python

```
try:  
    print(my_list[3])  
except IndexError:  
    print("Out of bounds")
```

- A. 40
- B. Out of bounds
- C. IndexError
- D. 30

Answer: B

19. When writing to a file, if you use the mode 'w', what happens to the existing content of the file?

- A. The new content is added to the end.
- B. The existing content is deleted and replaced with the new content.
- C. Python asks the user what to do.
- D. An error is raised.

Answer: B

20. Which exception specifically occurs when you try to open a file that does not exist in the specified path?

- A. FileExistsError
- B. FileNotFoundError
- C. NameError
- D. PermissionError

Answer: B

21. What file mode should be used to work with binary files (like images or executables) instead of plain text files?

- A. 'rb' or 'wb'
- B. 'rt' or 'wt'
- C. 'ra' or 'wa'
- D. 'rx' or 'wx'

Answer: A

22. The else block in a try...except...else structure executes only if:

- A. The try block raises an exception.
- B. The except block catches an exception.
- C. The try block executes without raising any exception.
- D. The finally block runs successfully.

Answer: C

23. When you successfully open a file using `open()`, what is returned?

- A. The entire file content as a string.
- B. A Boolean value (True).
- C. A file object (or file handle).
- D. The size of the file in bytes.

Answer: C

24. Which method is used to explicitly raise an exception in your code?

- A. `create()`
- B. `throw`
- C. `except`
- D. `raise`

Answer: D

25. What is the output of this code snippet regarding the file object `f`?

```
Python
with open("notes.txt", "w") as f:
    f.write("Important notes.")
# At this point, f is no longer accessible.
```

- A. The file is still open for reading.
- B. The file is guaranteed to be closed.
- C. An exception is guaranteed to be raised.
- D. The content of the file is erased.

Answer: B