



---

## Topics: File Handling, Exception Handling, Logging, Modules

### File Handling Questions

1. **Oral:**
    - What are the modes available for opening a file in Python? Explain each briefly.
    - What is the difference between `read()`, `readline()`, and `readlines()`?
    - How does the `with open()` statement work? Why is it preferred over `open()`?
    - What happens if you try to read from a file that does not exist? How can you handle this?
  2. **Coding:**
    - Write a program to create a file and write "Hello, Code Gemini" into it.
- 

### Logging Questions

1. **Oral:**
    - What is logging, and why is it used in Python programs?
    - What are the different logging levels in Python? Give a brief description of each.
    - Why should logging be used instead of `print` statements for debugging?
  2. **Coding:**
    - Write a basic program to log a message at the `INFO` level.
- 

### Exception Handling Questions

1. **Oral:**
    - What is an exception? How is it different from a syntax error?
    - Why is it important to handle exceptions in a program?
    - What is the purpose of the `try, except` blocks? Explain with an example.
    - What happens if no `except` block matches the raised exception?
    - Can you handle multiple exceptions in a single `try` block? How?
  2. **Coding:**
    - Write a program to handle a `ZeroDivisionError` when dividing two numbers.
- 

### Modules Questions

1. **Oral:**
-



# Code Gemini

+91 9373610956

[www.codegemini.in](http://www.codegemini.in)

[codegeminiedtech@gmail.com](mailto:codegeminiedtech@gmail.com)

- 
- What is a module in Python? How is it different from a package?
  - How do you import a module in Python? Give examples of `import`, `from ... import`, and `import ... as`.
  - Name some commonly used built-in modules in Python and their purposes.
  - How can you check the available functions in a module?
2. **Coding:**
- Write a program to use the `math` module to calculate the square root of a number.