

**1. Which of the following is the correct way to open a file in Python for reading?**

- a) file = open("file.txt", "r")
- b) file = open("file.txt", "w")
- c) file = open("file.txt", "a")
- d) file = open("file.txt", "x")

**Answer:** a) file = open("file.txt", "r")

**2. What happens if you open a file using mode "w" that already exists?**

- a) It will append data to the file
- b) It will raise an error
- c) It will overwrite the existing file
- d) It will do nothing

**Answer:** c) It will overwrite the existing file

**3. Which method is used to read the entire contents of a file?**

- a) file.read()
- b) file.readlines()
- c) file.readline()
- d) file.readfile()

**Answer:** a) file.read()

**4. What is the purpose of the "with" statement in file handling?**

- a) It is used to close the file automatically after file operations
- b) It allows you to open multiple files at once
- c) It speeds up file reading operations
- d) It prevents errors from occurring

**Answer:** a) It is used to close the file automatically after file operations

**5. Which method is used to move the file pointer to a specific position?**

- a) seek()
- b) tell()
- c) move()
- d) goto()

**Answer:** a) seek()

**6. What is the difference between an error and an exception?**

- a) Errors occur at runtime, whereas exceptions occur at compile time
- b) Errors occur due to invalid syntax, whereas exceptions occur due to logical issues
- c) Errors cannot be handled, but exceptions can be handled
- d) Both b and c

**Answer:** d) Both b and c

**7. Which of the following is an example of a built-in exception in Python?**

- a) ZeroDivisionError
- b) SyntaxError
- c) TypeError
- d) All of the above

**Answer:** d) All of the above

**8. What will happen if an exception is not handled in a Python program?**

- a) The program will terminate abruptly
- b) The program will continue execution normally
- c) The program will ignore the exception
- d) Python will try to fix the exception automatically

**Answer:** a) The program will terminate abruptly

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

- a) It executes only when an exception occurs
- b) It executes whether an exception occurs or not
- c) It catches multiple exceptions
- d) It prevents the program from terminating

**Answer:** b) It executes whether an exception occurs or not

**10. Which keyword is used to raise an exception manually in Python?**

- a) raise
- b) throw
- c) error
- d) except

**Answer:** a) raise

**1. What is the default mode in which the open() function opens a file?**

- a) "r" (read mode)
- b) "w" (write mode)
- c) "a" (append mode)
- d) "x" (exclusive creation mode)

**Answer:** a) "r" (read mode)

**2. Which of the following methods is used to read a single line from a file?**

- a) read()
- b) readlines()
- c) readline()
- d) readfile()

**Answer:** c) readline()

**3. What happens if you open a file in "a" mode?**

- a) It overwrites the file
- b) It appends data to the existing file
- c) It deletes the file before writing
- d) It only allows reading

**Answer:** b) It appends data to the existing file

**4. What will happen if we attempt to open a non-existent file in "r" mode?**

- a) A new file is created
- b) It raises a FileNotFoundError
- c) The program exits normally
- d) It returns an empty file object

**Answer:** b) It raises a FileNotFoundError

**5. The close() method is used to:**

- a) Free up system resources used by the file
- b) Delete the file from disk
- c) Make the file read-only
- d) Append new data to the file

**Answer:** a) Free up system resources used by the file

**6. What is the difference between read() and readlines() methods?**

- a) read() reads the entire file, whereas readlines() returns a list of lines
- b) read() returns a list, whereas readlines() returns a string
- c) Both functions return a list
- d) read() works only in binary files

**Answer:** a) read() reads the entire file, whereas readlines() returns a list of lines

**7. Which of the following statements about write() and writelines() is true?**

- a) write() writes a single string, whereas writelines() writes a list of strings
- b) writelines() writes one line at a time
- c) write() only works in binary mode
- d) write() can accept a list of strings

**Answer:** a) write() writes a single string, whereas writelines() writes a list of strings

**8. In Windows, which of the following is a correct way to specify an absolute file path?**

- a) f = open("C:\\folder\\file.txt")
- b) f = open("/home/user/file.txt")
- c) f = open("C:/folder/file.txt")
- d) Both (a) and (c)

**Answer:** d) Both (a) and (c)

**9. What does the seek() method do in file handling?**

- a) Closes the file
- b) Moves the file pointer to a specific location
- c) Reads a specific number of characters
- d) Deletes the file

**Answer:** b) Moves the file pointer to a specific location

**10. The tell() method is used for:**

- a) Reading the next character
- b) Returning the current file pointer position
- c) Closing the file
- d) Writing data to the file

**Answer:** b) Returning the current file pointer position

**11. What type of error is raised if a variable is used before assignment?**

- a) TypeError
- b) ZeroDivisionError
- c) NameError
- d) ValueError

**Answer:** c) NameError

**12. What is the output of the following code?**

python

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try:

    print(5/0)

except ZeroDivisionError:

    print("Cannot divide by zero")

- a) ZeroDivisionError: division by zero
- b) Cannot divide by zero
- c) 5/0
- d) No output

**Answer:** b) Cannot divide by zero

**13. Which block is always executed in exception handling?**

- a) try
- b) except
- c) else
- d) finally

**Answer:** d) finally

**14. What will the following code output if the user enters a non-numeric value?**

python

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try:

```
x = int(input("Enter a number: "))
```

except ValueError:

```
    print("Invalid input")
```

- a) Program crashes
- b) Nothing happens
- c) "Invalid input"
- d) "Enter a number:"

**Answer:** c) "Invalid input"

**15. Which of the following is NOT a built-in exception in Python?**

- a) FileNotFoundError
- b) KeyboardInterrupt
- c) OutOfMemoryError
- d) SyntaxError

**Answer:** c) OutOfMemoryError

**16. What does the else block in exception handling do?**

- a) Executes only when an exception occurs
- b) Executes only if no exception occurs
- c) Executes regardless of exceptions
- d) Used for handling multiple exceptions

**Answer:** b) Executes only if no exception occurs

**17. How do you manually raise an exception in Python?**

- a) raise Exception("Error")
- b) throw Exception("Error")
- c) except Exception("Error")
- d) error Exception("Error")

**Answer:** a) raise Exception("Error")

**18. What will happen if an exception occurs in a try block but no except block is provided?**

- a) The program continues normally
- b) The program crashes with a traceback error
- c) The program automatically handles the exception
- d) The program prints "Exception occurred"

**Answer:** b) The program crashes with a traceback error

**19. What is a user-defined exception?**

- a) An exception that is already built into Python
- b) An exception created by the user by defining a new class
- c) A syntax error
- d) A runtime error

**Answer:** b) An exception created by the user by defining a new class

**20. What will the following code output?**

python

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try:

```
    raise ValueError("Custom Error")
```

except ValueError as e:

```
    print(e)
```

- a) "Custom Error"
- b) ValueError
- c) raise ValueError("Custom Error")
- d) No output

**Answer:** a) "Custom Error"

**1. What will happen if you open a file in 'x' mode and the file already exists?**

- a) The file will be overwritten
- b) The file will be opened in append mode
- c) An error will be raised
- d) The file will be deleted and recreated

**Answer:** c) An error will be raised

**2. What is the output of the following code?**

python

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```
f = open("sample.txt", "w")
```

```
f.write("Hello, World!")
```

```
f.close()
```

```
f = open("sample.txt", "r")
```

```
print(f.read())
```

- a) Hello, World!
- b) An error will occur
- c) sample.txt
- d) None

**Answer:** a) Hello, World!

**3. Which method is used to read an entire file as a string?**

- a) readlines()
- b) read()
- c) readline()
- d) fetch()

**Answer:** b) read()

**4. How do you open a file for both reading and writing?**

- a) "rw"
- b) "r+"
- c) "w+"
- d) "a+"

**Answer:** b) "r+"

**5. What does the "rb" mode do when opening a file?**

- a) Opens the file in read mode
- b) Opens the file in binary mode
- c) Opens the file in read and binary mode
- d) None of the above

**Answer:** c) Opens the file in read and binary mode



**6. What will the following code output?**

python

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```
f = open("file.txt", "w")
```

```
f.write("Python")
```

```
f.seek(0)
```

```
f.write("Java")
```

```
f.close()
```

```
f = open("file.txt", "r")
```

```
print(f.read())
```

- a) Javaon
- b) Python
- c) Javathon
- d) PythonJava

**Answer:** a) Javaon

**7. Which function returns the current file pointer position?**

- a) position()
- b) seek()
- c) tell()
- d) pointer()

**Answer:** c) tell()

**8. What will happen if we open a file using 'a' mode and then try to read it?**

- a) The file will be read normally
- b) The file will be overwritten
- c) An error will occur
- d) The file pointer will be at the end of the file

**Answer:** d) The file pointer will be at the end of the file

**9. What does the following code do?**

```
python
```

```
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```

```
with open("test.txt", "r") as f:
```

```
    data = f.read()
```

- a) It opens the file and closes it automatically after reading
- b) It reads the file but does not close it
- c) It throws an error if the file does not exist
- d) Both (a) and (c)

**Answer:** d) Both (a) and (c)

**10. Which of the following statements about writelines() is true?**

- a) It writes a list of strings to a file
- b) It adds a newline character automatically
- c) It writes one character at a time
- d) None of the above

**Answer:** a) It writes a list of strings to a file

**11. What type of error is caused by dividing by zero?**

- a) ValueError
- b) ZeroDivisionError
- c) SyntaxError
- d) ArithmeticError

**Answer:** b) ZeroDivisionError

**12. Which of the following will NOT raise an exception?**

- a) int("hello")
- b) 5 / 0
- c) print(10 / 2)
- d) open("non\_existent.txt")

**Answer:** c) print(10 / 2)

**13. What is the purpose of the except block?**

- a) To define a function
- b) To handle errors that occur in a try block
- c) To execute code only if no exceptions occur
- d) None of the above

**Answer:** b) To handle errors that occur in a try block

**14. What will the following code output?**

python

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try:

```
    print(10 / 0)
```

except ZeroDivisionError:

```
    print("Cannot divide by zero")
```

else:

```
    print("No error occurred")
```

- a) 10 / 0
- b) "Cannot divide by zero"
- c) "No error occurred"
- d) None

**Answer:** b) "Cannot divide by zero"

**15. Which statement about the finally block is correct?**

- a) It executes only if an exception occurs
- b) It executes only if no exception occurs
- c) It always executes
- d) It never executes

**Answer:** c) It always executes

**16. What does the raise keyword do in Python?**

- a) Catches an exception
- b) Creates a new exception
- c) Manually triggers an exception
- d) Suppresses an exception

**Answer:** c) Manually triggers an exception

**17. What will happen if an exception occurs in the try block but there is no matching except block?**

- a) The program continues execution
- b) The program stops and an error message is displayed
- c) The program automatically fixes the error
- d) The else block executes

**Answer:** b) The program stops and an error message is displayed

**18. How can we handle multiple exceptions in a single except block?**

- a) Using multiple except blocks
- b) Using a tuple of exception types
- c) Using a try block inside an except block
- d) We cannot handle multiple exceptions

**Answer:** b) Using a tuple of exception types

**19. What happens if an exception occurs inside an else block?**

- a) The exception is ignored
- b) The program crashes
- c) The except block executes
- d) The finally block executes

**Answer:** b) The program crashes

**20. What is a user-defined exception?**

- a) An exception created by the user by defining a new class
- b) A built-in exception in Python
- c) An error raised by Python itself
- d) A syntax error

**Answer:** a) An exception created by the user by defining a new class

**1. What is the default encoding used when opening a file in text mode in Python?**

- a) UTF-8
- b) ASCII
- c) UTF-16
- d) ISO-8859-1

**Answer:** a) UTF-8

**2. What will the following code do?**

python

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```
f = open("data.txt", "w")
```

```
f.write("Hello")
```

```
f.close()
```

```
f = open("data.txt", "a")
```

```
f.write(" World")
```

```
f.close()
```

```
f = open("data.txt", "r")
```

```
print(f.read())
```

- a) Hello
- b) Hello World
- c) World
- d) An error occurs

**Answer:** b) Hello World

**3. What does buffering=0 mean in file operations?**

- a) No buffering is used, and data is written immediately
- b) Data is written after closing the file
- c) Data is stored in memory before writing
- d) The file is read in chunks

**Answer:** a) No buffering is used, and data is written immediately

**4. What will happen if you try to write to a file opened in 'r' mode?**

- a) It will overwrite the file
- b) It will raise an error
- c) It will append data to the file
- d) The data will be written, but not saved

**Answer:** b) It will raise an error

**5. What is the advantage of using the "with" statement when handling files?**

- a) It ensures the file is closed automatically
- b) It speeds up file reading
- c) It prevents syntax errors
- d) It prevents writing to the file

**Answer:** a) It ensures the file is closed automatically

**6. Which method reads a file line by line?**

- a) read()
- b) readline()
- c) readlines()
- d) readfile()

**Answer:** b) readline()

**7. What will the following code output?**

python

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```
f = open("data.txt", "w")
```

```
f.writelines(["Line1\n", "Line2\n"])
```

```
f.close()
```

```
f = open("data.txt", "r")
```

```
print(f.readlines())
```

- a) ["Line1", "Line2"]
- b) ["Line1\n", "Line2\n"]
- c) ["Line1 Line2"]
- d) An error occurs

**Answer:** b) ["Line1\n", "Line2\n"]

**8. If a file does not exist, which mode will create a new file?**

- a) "r"
- b) "w"
- c) "r+"
- d) "rb"

**Answer:** b) "w"

**9. What will seek(0, 2) do in a file?**

- a) Move the pointer to the beginning of the file
- b) Move the pointer to the end of the file
- c) Move the pointer to the second character
- d) Raise an error

**Answer:** b) Move the pointer to the end of the file

**10. What will tell() return immediately after opening a file in read mode?**

- a) -1
- b) 0
- c) None
- d) The total size of the file

**Answer:** b) 0

**11. Which of the following errors occur due to incorrect syntax?**

- a) ZeroDivisionError
- b) SyntaxError
- c) TypeError
- d) ValueError

**Answer:** b) SyntaxError

**12. Which exception is raised when trying to open a file that does not exist?**

- a) FileNotFoundError
- b) IOError
- c) TypeError
- d) IndexError

**Answer:** a) FileNotFoundError

**13. Which statement is used to handle exceptions in Python?**

- a) catch
- b) try-except
- c) try-catch
- d) error

**Answer:** b) try-except

**14. What is the output of the following code?**

python

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try:

```
    print(10 / 0)
```

except ZeroDivisionError:

```
    print("Cannot divide by zero")
```

finally:

```
    print("Execution completed")
```

- a) "Cannot divide by zero"
- b) "Execution completed"
- c) "Cannot divide by zero", "Execution completed"
- d) An error occurs

**Answer:** c) "Cannot divide by zero", "Execution completed"

**15. Which of the following is NOT an exception type in Python?**

- a) ValueError
- b) KeyError
- c) ArrayOutOfBoundsException
- d) AttributeError

**Answer:** c) ArrayOutOfBoundsException



**16. What is the output of the following code?**

python

CopyEdit

try:

```
    num = int("abc")
```

except ValueError as e:

```
    print(e)
```

- a) ValueError
- b) invalid literal for int() with base 10: 'abc'
- c) "abc"
- d) None

**Answer:** b) invalid literal for int() with base 10: 'abc'

**17. Which of the following statements is true about the finally block?**

- a) It executes only if an exception occurs
- b) It executes only if no exception occurs
- c) It always executes, regardless of exceptions
- d) It prevents exceptions from occurring

**Answer:** c) It always executes, regardless of exceptions

**18. How do you define a custom exception in Python?**

- a) By creating a new class that inherits from Exception
- b) By using the raise keyword
- c) By using def Exception()
- d) By writing an if condition

**Answer:** a) By creating a new class that inherits from Exception

**19. What does the following code output if the user enters a string instead of a number?**

python

CopyEdit

try:

```
    x = int(input("Enter a number: "))
```

except ValueError:

```
    print("Invalid number")
```

else:

```
    print("Valid number")
```

a) "Invalid number"

b) "Valid number"

c) None

d) An error occurs

**Answer:** a) "Invalid number"

**20. What is the best way to catch multiple exceptions in Python?**

a) Using multiple except blocks

b) Using a single except block with a tuple of exception types

c) Using the else block

d) Ignoring the exceptions

**Answer:** b) Using a single except block with a tuple of exception types