File Handling in Python

File Handling In Python :

It allows you to read and write files, which can be in any format such as text, CSV, JSON, or binary.
Python provides built-in functions to perform file handling operations such as opening, reading, writing, and closing a file.

Opening a file:

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

Reading a file:

```
content = file.read()
```

Writing to a file:

```
file.write("Hello, world!")
```

Closing a file:

```
file.close()
```

Error Handling In Python

Common Error types

n Python, errors are also called exceptions, and they are raised when the program encounters an unexpected condition or situation that it cannot handle.

SyntaxError

```
print "Hello World!" # missing parenthesis
```

NameError

```
print(x) # variable x is not defined
```

TypeError

```
print("5" + 5) # concatenation of string and integer
```

IndexError

```
my_list = [1, 2, 3]
print(my_list[3]) # index 3 is out of range
```

ValueError

```
int("hello") # cannot convert string to integer
```

KeyError

```
my_dict = {"a": 1, "b": 2, "c": 3}
print(my_dict["d"]) # key "d" not found in dictionary
```

ZeroDivisionError

```
print(5/0) # division by zero
```


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