Python File Handling

The video is a tutorial on file handling in Python, covering how to open, read, write, and append to files.

Key Concepts and Methods

• **Opening a file:** The `open()` method is used to open a file. It takes two arguments: **File name** and **Mode**. The common modes discussed are: **'r' (Read Mode)**, **'w' (Write Mode)**, **'a' (Append Mode)**, and **'x' (Create Mode)**.

• **File types:** Files can be handled as either: **'t' (Text Mode)** or **'b' (Binary Mode)**.

• **Reading a file:** To read the content of a file, you can use methods like `f.read()`.

• **Writing to a file:** To write content, use the `f.write()` method.

• **Closing a file:** It is important to close the file after performing operations using the `f.close()` method. This ensures that the changes are saved and resources are freed.

• **The `with` statement:** The video introduces the `with` statement as a more efficient way to handle files. It automatically closes the file, so you don't need to manually call `f.close()`.

Code Examples from the Video

Opening and Reading a File:

```
f = open('my_file.txt', 'r')
text = f.read()
print(text)
f.close()
```

Writing to a File:

```
f = open('my_file.txt', 'w')
f.write('Hello World')
f.close()
```

Appending to a File:

```
f = open('my_file.txt', 'a')
f.write('Hello World')
f.close()
```

Using the `with` statement:

```
with open('my_file.txt', 'a') as f:
    f.write('Hi I am inside with')
```