File Handling

File handling in Python allows you to create, read, update, and delete files. It is an essential part of many Python programs for tasks like reading data from files, storing results, or logging.

Basic File Operations

- Open a File
- Reade a File
- Write to a File
- Append to a File

Open a File

Syntax:

file = open("filename", "mode")

Modes

- 'r' - Read (default), error if file doesn't exist
- 'w' - Write, creates file if not exist, overwrites existing
- 'a' - Append, creates file if not exist
- List item

```
f = open('/content/style.css','r')
```

```
f.read()
```

```
'body {\n    font-family: 'Poppins', sans-serif;\n    margin: 0;\n    padding: 0;\n    background: #fff;\n    color: #33
3;\n}\nheader {\n    background: #0f696c;\n    padding: 15px 30px;\n    display: flex;\n    justify-content: space-betwee
n;\n    align-items: center;\n}\n.logo a {\n    color: #fff;\n    font-size: 26px;\n    text-decoration: none;\n    font-
weight: 700;\n}\nnav ul {\n    list-style: none;\n    display: flex;\n    gap: 20px;\n}\nnav ul li a {\n    color: #ff
f;\n    text-decoration: none;\n    font-weight: 500;\n}\n.hero {\n    text-align: center;\n    padding: 60px 20px;\n
background: linear-gradient(90deg, #0f696c, #057373);\n    color: white;\n}\n.profile-img {\n    width: 160px;\n    heigh
t: 160px;\n    border-radius: 50%;\n    border: 4px solid #fff;\n    margin-bottom: 20px;\n}\n.btn {\n    display: inline
-block;\n    margin-top: 20px;\n    background: #fff;\n    color: #0f696c;\n    padding: 10px 20px;\n    border-radius: 5
px;\n    text-decoration: none;\n    ...'
```

```
f = open('/content/myfile.css','w')
f.write('my second python code')
```

```
f=open('/content/myfile.css','r')
f.read()
```

```
f = open('/content/myfile.css','a')
```

```
f = open('myfile.txt', 'a')
f.write('my third code\n')
f.close()
```

What can I help you build?

```
f = open('myfile.txt', 'r')
f.read()
```

Read a File

```
file = open("myfile.txt", "r")
content = file.read()
print(content)
file.close()
```

```
my third code
```

```
#read file line by line

file = open("in.html", "r")
for line in file:
    print(line.strip())
file.close()
```

```
<img src="https://upload.wikimedia.org/wikipedia/commons/6/69/Airbnb_Logo_Bélo.svg" alt="Airbnb">
<img src="https://upload.wikimedia.org/wikipedia/commons/2/26/Spotify_logo_with_text.svg" alt="Spotify">
<img src="https://upload.wikimedia.org/wikipedia/commons/c/c0/Intel_logo_%282020%29.svg" alt="Intel">
</section>

</body>
</html>
```

```
# Using readlines()
file = open("in.html", "r")
lines = file.readlines()
print(lines)
file.close()
```

```
['<!DOCTYPE html>\n', '<html lang="en">\n', '<head>\n', '  <meta charset="UTF-8">\n', '  <meta name="viewport" content="wi
```

Writing to a File

```
# Overwrites existing content or creates new
file = open("example.txt", "w")
file.write("Hello, World!\n")
file.write("This is Python file handling.\n")
file.close()
```

Double-click (or enter) to edit

```
file = open("example.txt", "r")
file.read()
```

Append to a File

```
file = open("example.txt", "a")
file.write("Adding another line.\n")
file.close()
```

Using with Statement

```
with open("example.txt", "r") as file:
    content = file.read()
    print(content)
```

```
Hello, World!
This is Python file handling.
Adding another line.
```

Copy file

```
with open("source.txt", "r") as src, open("destination.txt", "w") as dest:
    for line in src:
        dest.write(line)



#check file exist
import os
```

```
if os.path.exists("in.html"):
    print("File exists!")
else:
    print("File not found!")
```

```
File not found!
```

```
#remove file
import os

if os.path.exists("in.html"):
    os.remove("in.html")
else:
    print("The file does not exist")
```

```
The file does not exist
```

Start coding or generate with AI.