

FILES

Opening files

```
handle = open(filename, mode)
```

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

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

```
f = open("data.txt", "r", encoding="utf-8")
```

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

Opening files: modes

- "r" – file is opened only for reading
- "w" – file is opened only for writing
(an existing file with the same name will be erased)
- "a" – file is opened for appending
(the data are written to the end of the file)
- "r+" – file is opened for both reading and writing

The mode argument is optional;

"r" is assumed if the mode argument is omitted

Open a file

```
fname = input("Enter filename: ")
try:
    f = open(fname)
except:
    print("File cannot be opened:", fname)
else:
    ...
```

Reading the file

- Line by line

```
f = open("data.txt")
for line in f:
    print(line.strip())
```

- Whole file at once

```
f = open("data.txt")
content = f.read()
```

Writing to the file

```
f = open("output.txt", "w")  
f.write("This is the first line.\n")  
f.write("This is the second line.\n")
```

Closing the file

```
# Open file
```

```
...
```

```
# Read and/or write data
```

```
...
```

```
# Close file
```

```
f.close()
```