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"""
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Types of Files:

1. Text Files
2. csv file (Comma Separated Values) -, tsv (tab seaparted values)  
Extension: .csv

3. excel file -

4. Images

5. Audio Files

6. Video Files

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from os import write
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Syntax:

```
with open(<file_path>, [mode], [encoding]) as <alias_name>:  
    # Body
```

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path:

Location where the file is saved.

Types of Paths:

1. Relative Path (Path based on the current file)

./ => Current Directory

../ => Parent Directory

2. Absolute Path (Path from the root directory)

mode:

r = Read

Reads the content from an existing file.

If the file doesn't exist, raises a FileNotFoundError.

w = Write

Creates a New File and Writes Content to the file.

If the file already exists, overwrites the existing contents  
with new contents.

a = append

Creates a New File and Writes the Contents to the file.

If the file already exists, Adds the new Contents  
to the existing contents.

x = Creates a New File and Writes the Contents to the file.

If the file already exists, raises FileExistsError.

rb = read binary (read Binary Files)

wb = write Binary (write Binary Content)

ab = append Binary (append Binary Content)

r+

In-built methods:

1. read() - reads the whole file content and returns a string
2. readline() - reads a single line in the file.

3. readlines() - reads the whole file and returns a list of all the lines.

1. write() - accepts only a string and writes the string to the file

2. writelines() - accepts an iterable and writes the items in the iterable to the file.

seek() - takes the file pointer to the specified position.

tell() - prints the current line.

"""

```
fp = open(".\\output.txt", "r")
content = fp.read()
fp.close()
print("File Contents are", content)
```

```
with open(".\\output.txt", "r") as fp:
    data = fp.read()
print(data)
print()
```

```
with open(".\\output.txt") as fp:
    data = fp.read()
print(data)
print()
```

```
with open("D:\\Full Stack\\Backend\\Python\\PythonJune2025\\output.txt", "r") as fp:
    data = fp.read()
    print("Reading using Absolute Path...")
    print(data)
```

```
with open(".\\output1.txt", "w") as fp:
    fp.write("Writing to a File using Python.....")
```

"""

```
with open(".\\skdjksjdffs.txt", "r") as fp:
    data = fp.read()
print(data)
"""
```

```
with open(".\\output.txt", "w") as fp:
    fp.write("Line 85")
    fp.write("Line 86")
    fp.write("Line 87")
```

```
with open(".\\output2.txt", "a") as fp:
    fp.write("Appending Content to a File...")
```

```
with open(".\\output.txt", "a") as fp:
    fp.write("Appending Content to a File...")
```

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"""
with open(".\\output3.txt", "x") as fp:
    fp.write("Writing Content to a File...")

with open(".\\output.txt", "x") as fp:
    fp.write("Writing Content to a File...")

with open(".\\output.txt", "r") as fp:
    fp.write("Trying to write to a file by opening in read mode...")
"""

with open(".\\output.txt", "r") as fp:
    contents1 = fp.read()

with open(".\\output1.txt", "r") as fp:
    contents2 = fp.read()

with open(".\\output2.txt", "r") as fp:
    contents3 = fp.read()

with open(".\\output3.txt", "r") as fp:
    contents4 = fp.read()

with open(".\\output4.txt", "w") as fp:
    fp.write(contents1 + '\n' + contents2 + '\n' + contents3 + '\n' + contents4)

def write_multiple_file_paths(*file_paths, destination_file_path):
    contents = ""
    for file_path in file_paths:
        with open(file_path, "r") as fp:
            contents += fp.read() + '\n'

    with open(destination_file_path, "w") as fp:
        fp.write(contents)

write_multiple_file_paths("output.txt", "output1.txt", "output2.txt",
"output3.txt", destination_file_path="output5.txt")

with open("./file_io_methods.txt", "r") as fp:
    first_line = fp.readline()
    print(first_line)
    second_line = fp.readline()
    print(second_line)
    third_line = fp.readline()
    print(third_line)

with open("./file_io_methods.txt", "r") as fp:
    lines = fp.readlines()
    print(lines)

```

```
l1 = ["Line1\n", "Line2\n", "Line3\n", "Line4\n", "Line5\n"]
with open("./file_io_methods1.txt", "w") as fp:
    fp.writelines(l1)

with open("file_io_methods.txt", "a") as fp:
    fp.write("Adding New Content....")

with open("file_io_methods.txt", "a") as fp:
    content = fp.seek(5)
    print(content)
    content = fp.tell()
    print(content)
    # fp.write("Adding New Content in the middle....")
```