

Aim: To implement programs based on File Handling.

Code:

```
import os

# =====
# 📄 File Handling Operations
# =====

filename = "sample.txt"

# 1 Create and Write to a File

def write_file():
    with open(filename, "w") as file:
        file.write("Hello, this is the first line.\n")
        file.write("This is the second line.\n")
    print("✅ File created and data written successfully.")

# 2 Read from a File

def read_file():
    if os.path.exists(filename):
        with open(filename, "r") as file:
            content = file.read()
            print("\n📖 File Content:\n")
            print(content)
    else:
        print("⚠️ File does not exist. Please create it first.")

# 3 Append to a File

def append_file():
    if os.path.exists(filename):
        with open(filename, "a") as file:
            file.write("This line is appended to the file.\n")
        print("✅ Data appended successfully.")
```

else:

print(" ⚠ File does not exist. Please create it first.")

4 Delete the File

def delete_file():

if os.path.exists(filename):

os.remove(filename)

print(" 🗑 File deleted successfully.")

else:

print(" ⚠ File not found, cannot delete.")

5 Menu for User Interaction

def main():

while True:

print("\n===== FILE HANDLING MENU =====")

print("1. Create & Write File")

print("2. Read File")

print("3. Append to File")

print("4. Delete File")

print("5. Exit")

print("=====")

choice = input("Enter your choice (1-5): ")

if choice == "1":

write_file()

elif choice == "2":

read_file()

elif choice == "3":

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        append_file()

    elif choice == "4":

        delete_file()

    elif choice == "5":

        print("👋 Exiting program. Goodbye!")

        break

    else:

        print("❌ Invalid choice. Please enter a number between 1 and 5.")
```

Run the main program

```
if __name__ == "__main__":

    main()
```

Output:

```
***
===== FILE HANDLING MENU =====
1. Create & Write File
2. Read File
3. Append to File
4. Delete File
5. Exit
=====
Enter your choice (1-5): 1
✅ File created and data written successfully.

===== FILE HANDLING MENU =====
1. Create & Write File
2. Read File
3. Append to File
4. Delete File
5. Exit
=====
Enter your choice (1-5): 2

📖 File Content:

Hello, this is the first line.
This is the second line.

===== FILE HANDLING MENU =====
1. Create & Write File
2. Read File
3. Append to File
4. Delete File
5. Exit
=====
Enter your choice (1-5): 5
👋 Exiting program. Goodbye!
```