

## 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!
```