

## **ASSIGNMENT 4:**

### **Module 5: Files, Exceptions, and Errors in Python**

#### **Task 1: Read a File and Handle Errors**

**Problem Statement:** Write a Python program that:

1. Opens and reads a text file named sample.txt.
2. Prints its content line by line.
3. Handles errors gracefully if the file does not exist.

#### **Expected Output:**

If the file exists:

```
Reading file content:  
Line 1: This is a sample text file.  
Line 2: It contains multiple lines.
```

If the file does not exist:

```
Error: The file 'sample.txt' was not found.
```

## **Task 2: Write and Append Data to a File**

**Problem Statement:** Write a Python program that:

1. Takes user input and writes it to a file named **output.txt**.
2. Appends additional data to the same file.
3. Reads and displays the final content of the file.

### **Expected Output:**

For example, if the user enters 25, the output should be:

```
Enter text to write to the file: Hello, Python!  
Data successfully written to output.txt.  
  
Enter additional text to append: Learning file handling in Python.  
Data successfully appended.  
  
Final content of output.txt:  
Hello, Python!  
Learning file handling in Python.
```