

ASSIGNMENT 4

Task 1: Read a File and Handle Errors

```
reusing.py x math.py def.py assignment 4.py.py x
20 > if __name__ == "__main__":
21
22     try:
23         with open("sample.txt", "w") as f:
24             f.write("This is line 1.\n")
25             f.write("This is line 2.\n")
26             f.write("And this is the third line.")
27     except Exception as e:
28         print(f"Could not create sample.txt for testing: {e}")
29
30     read_and_print_file("sample.txt")
31
32     print("\n--- Attempting to read a non-existent file ---")
33     read_and_print_file("non_existent_file.txt")
```

```
assignment 4.py x
:
C:\Users\bansh\PycharmProjects\PythonProject2\.venv\Scripts\python.exe
Content of sample.txt:
This is line 1.
This is line 2.
And this is the third line.
```

```
assignment 4.py x
:
This is line 2.
And this is the third line.

--- Attempting to read a non-existent file ---
Error: The file 'non_existent_file.txt' was not found.
```

```
1 def write_and_append_to_file(filename="output.txt"): 1 usage: new *
2
3     try:
4         # 1. Write user input to the file
5         with open(filename, 'w') as file:
6             user_input = input("Enter data to write to the file: ")
7             file.write(user_input + "\n") # Add a newline character
8
9         # 2. Append additional data to the file
10        with open(filename, 'a') as file:
11            file.write("I AM BANSI SAVALIYA.\n")
12            file.write("LEARNING PLATFORM IN TUTEDUDE.\n")
13
14        # 3. Read and display the final content of the file
15        with open(filename, 'r') as file:
16            print(f"\nFinal content of {filename}:")
17            for line in file:
```

```
ASSIGNMENT 4(!).PY x
:
Final content of output.txt:
Bansi.txt
I AM BANSI SAVALIYA.
LEARNING PLATFORM IN TUTEDUDE.

Process finished with exit code 0
```