```
"""
Python File Handling & Automation Script
Author: Your Name
Description:
This script demonstrates:
1. Reading and writing text files
2. Reading and writing CSV files
3. Automating file operations (rename, move, delete)
4. Using try-except for error handling
"""

import os        # For file & folder operations
import csv       # For CSV file handling
import shutil    # For moving files

# 1. WRITE TO A TEXT FILE

try:
    # Open file in write mode (creates file if not exists)
    with open("sample.txt", "w") as file:
        file.write("Hello, this is a sample text file.\n")
        file.write("Python File Handling Example.\n")

    print("Text file created successfully.")

except Exception as e:
```

```
    print("Error while writing text file:", e)


# 2. READ FROM TEXT FILE
try:
    with open("sample.txt", "r") as file:
        content = file.read()
        print("\nReading Text File:")
        print(content)

except FileNotFoundError:
    print("Text file not found.")
except Exception as e:
    print("Error while reading text file:", e)

# 3. WRITE TO CSV FILE
try:
    with open("students.csv", "w", newline="") as csvfile:
        writer = csv.writer(csvfile)

        # Writing header
        writer.writerow(["ID", "Name", "Marks"])

        # Writing data rows
        writer.writerow([1, "Karan", 85])
        writer.writerow([2, "Rahul", 90])
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        writer.writerow([3, "Sneha", 88])

    print("CSV file created successfully.")

except Exception as e:
    print("Error while writing CSV file:", e)

# 4. READ FROM CSV FILE
try:
    with open("students.csv", "r") as csvfile:
        reader = csv.reader(csvfile)

        print("\nReading CSV File:")
        for row in reader:
            print(row)

except FileNotFoundError:
    print("CSV file not found.")
except Exception as e:
    print("Error while reading CSV file:", e)

# 5. AUTOMATION - RENAME FILE
try:
    os.rename("sample.txt", "renamed_sample.txt")
    print("\nFile renamed successfully.")
```
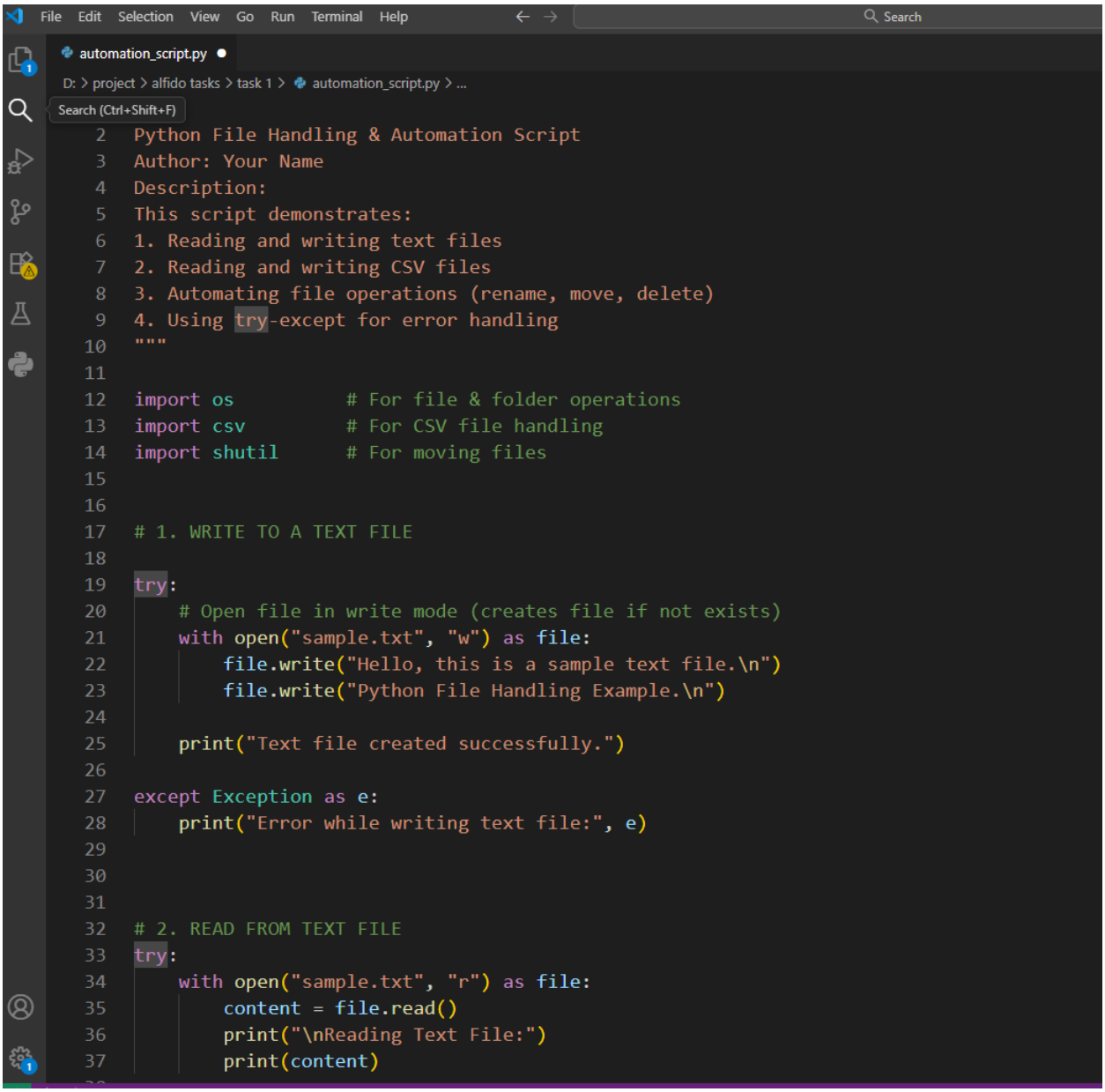

```
except FileNotFoundError:
    print("File to rename not found.")
except Exception as e:
    print("Error while renaming file:", e)

# 6. AUTOMATION - MOVE FILE
try:
    # Create folder if not exists
    if not os.path.exists("backup"):
        os.makedirs("backup")

    # Move file to backup folder
    shutil.move("renamed_sample.txt", "backup/renamed_sample.txt")
    print("File moved to backup folder.")

except FileNotFoundError:
    print("File to move not found.")
except Exception as e:
    print("Error while moving file:", e)

# 7. AUTOMATION - DELETE FILE
try:
    os.remove("students.csv")
    print("CSV file deleted successfully.")

except FileNotFoundError:
```

```
    print("File to delete not found.")
except Exception as e:
    print("Error while deleting file:", e)

print("\nAutomation process completed.")
```

Github repository

https://github.com/Karan6165/Alfido-Tech-Internship.git


File Edit Selection View Go Run Terminal Help
Search
automation_script.py
D: > project > alfido tasks > task 1 > automation_script.py > ...
Search (Ctrl+Shift+F)
Python File Handling & Automation Script
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2. Reading and writing CSV files
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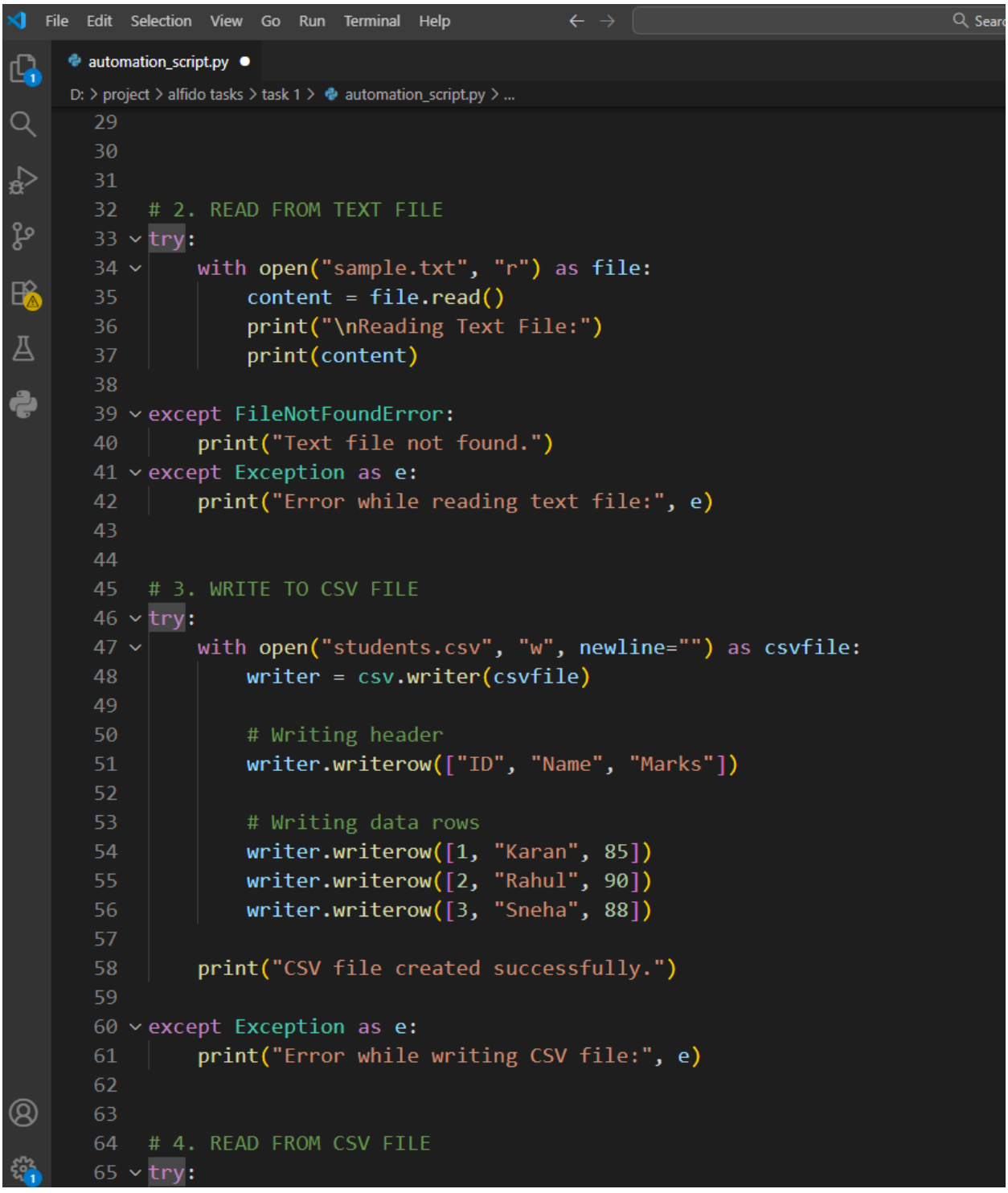
4. Using try-except for error handling
"""
import os # For file & folder operations
import csv # For CSV file handling
import shutil # For moving files
# 1. WRITE TO A TEXT FILE
try:
# Open file in write mode (creates file if not exists)
with open("sample.txt", "w") as file:
file.write("Hello, this is a sample text file.\n")
file.write("Python File Handling Example.\n")
print("Text file created successfully.")
except Exception as e:
print("Error while writing text file:", e)
# 2. READ FROM TEXT FILE
try:
with open("sample.txt", "r") as file:
content = file.read()
print("\nReading Text File:")
print(content)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29
30
31
32 # 2. READ FROM TEXT FILE
33 try:
34 with open("sample.txt", "r") as file:
35 content = file.read()
36 print("\nReading Text File:")
37 print(content)
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39 except FileNotFoundError:
40 print("Text file not found.")
41 except Exception as e:
42 print("Error while reading text file:", e)
43
44
45 # 3. WRITE TO CSV FILE
46 try:
47 with open("students.csv", "w", newline="") as csvfile:
48 writer = csv.writer(csvfile)
49
50 # Writing header
51 writer.writerow(["ID", "Name", "Marks"])
52
53 # Writing data rows
54 writer.writerow([1, "Karan", 85])
55 writer.writerow([2, "Rahul", 90])
56 writer.writerow([3, "Sneha", 88])
57
58 print("CSV file created successfully.")
59
60 except Exception as e:
61 print("Error while writing CSV file:", e)
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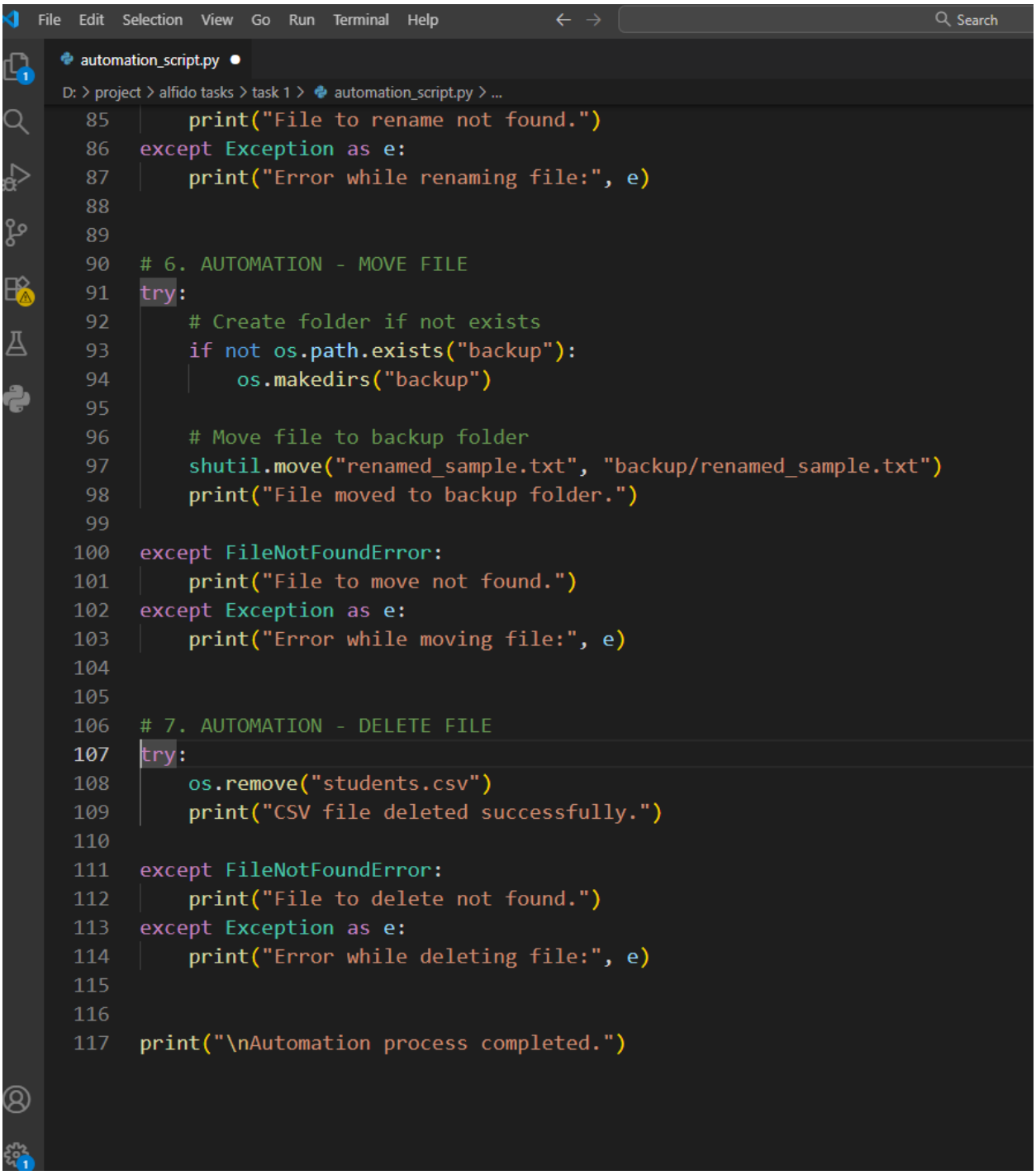
64 # 4. READ FROM CSV FILE
65 try:

automation_script.py

D: > project > alfido tasks > task 1 > automation_script.py > ...

```
59
60  except Exception as e:
61      print("Error while writing CSV file:", e)
62
63
64  # 4. READ FROM CSV FILE
65  try:
66      with open("students.csv", "r") as csvfile:
67          reader = csv.reader(csvfile)
68
69          print("\nReading CSV File:")
70          for row in reader:
71              print(row)
72
73  except FileNotFoundError:
74      print("CSV file not found.")
75  except Exception as e:
76      print("Error while reading CSV file:", e)
77
78
79  # 5. AUTOMATION - RENAME FILE
80  try:
81      os.rename("sample.txt", "renamed_sample.txt")
82      print("\nFile renamed successfully.")
83
84  except FileNotFoundError:
85      print("File to rename not found.")
86  except Exception as e:
87      print("Error while renaming file:", e)
88
89
90  # 6. AUTOMATION - MOVE FILE
91  try:
92      # Create folder if not exists
93      if not os.path.exists("backup"):
94          os.makedirs("backup")
95
```


File Edit Selection View Go Run Terminal Help
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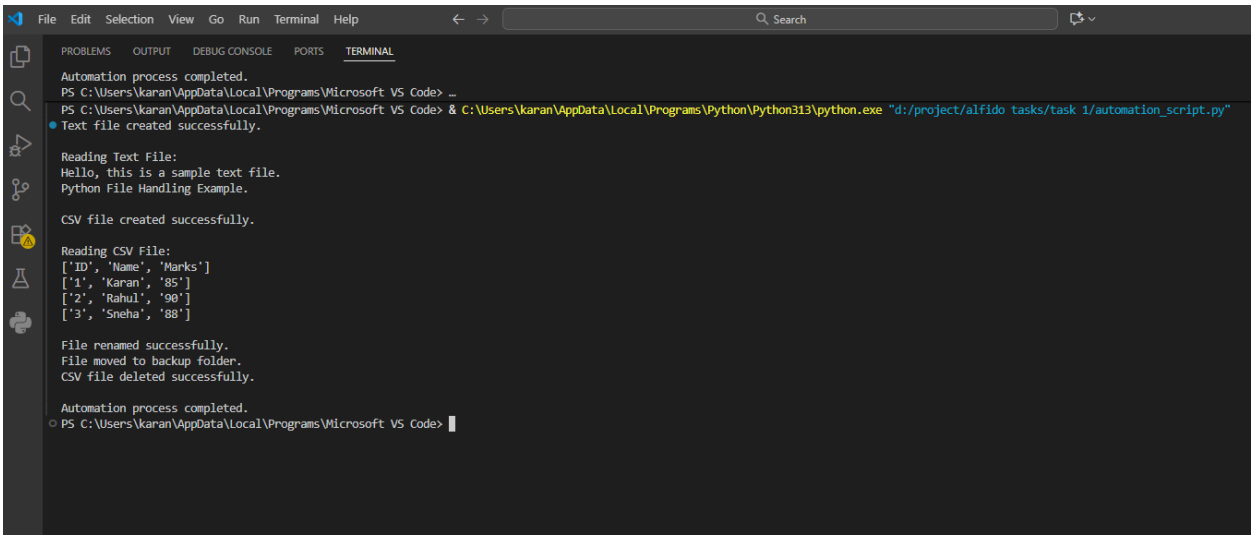
automation_script.py
D: > project > alfido tasks > task 1 > automation_script.py > ...
85 print("File to rename not found.")
86 except Exception as e:
87 print("Error while renaming file:", e)
88
89
90 # 6. AUTOMATION - MOVE FILE
91 try:
92 # Create folder if not exists
93 if not os.path.exists("backup"):
94 os.makedirs("backup")
95
96 # Move file to backup folder
97 shutil.move("renamed_sample.txt", "backup/renamed_sample.txt")
98 print("File moved to backup folder.")
99
100 except FileNotFoundError:
101 print("File to move not found.")
102 except Exception as e:
103 print("Error while moving file:", e)
104
105
106 # 7. AUTOMATION - DELETE FILE
107 try:
108 os.remove("students.csv")
109 print("CSV file deleted successfully.")
110
111 except FileNotFoundError:
112 print("File to delete not found.")
113 except Exception as e:
114 print("Error while deleting file:", e)
115
116
117 print("\nAutomation process completed.")


File Edit Selection View Go Run Terminal Help
Search
PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL
Automation process completed.
PS C:\Users\karan\AppData\Local\Programs\Microsoft VS Code> …
PS C:\Users\karan\AppData\Local\Programs\Microsoft VS Code> & C:\Users\karan\AppData\Local\Programs\Python\Python313\python.exe "d:/project/alfido tasks/task 1/automation_script.py"
Text file created successfully.
Reading Text File:
Hello, this is a sample text file.
Python File Handling Example.
CSV file created successfully.
Reading CSV File:
['ID', 'Name', 'Marks']
['1', 'Karan', '85']
['2', 'Rahul', '90']
['3', 'Sneha', '88']
File renamed successfully.
File moved to backup folder.
CSV file deleted successfully.
Automation process completed.
PS C:\Users\karan\AppData\Local\Programs\Microsoft VS Code>