5_File and Exception Handling
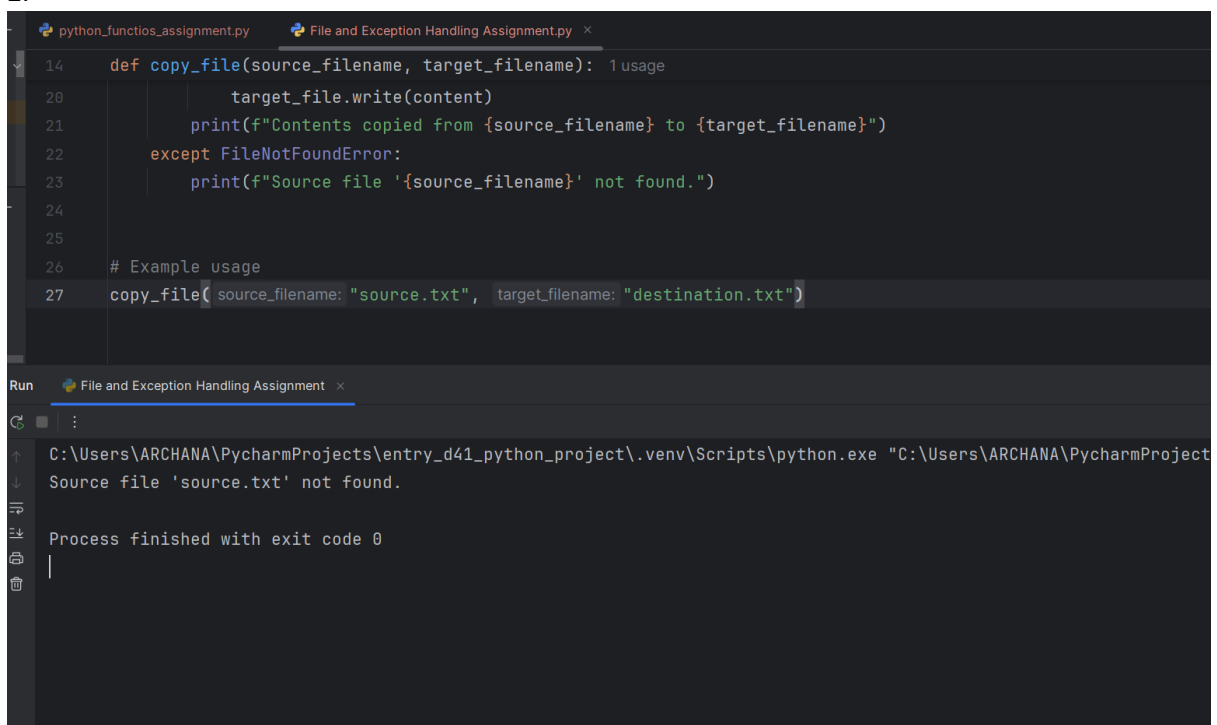
1.

```
# Exercise 1: Read a File and Display Its Contents
def read_file(filename):  1 usage
    try:
        with open(filename, 'r') as file:
            content = file.read()
            print(content)
    except FileN                          found.")
        print(f"

# Example usage
read_file("example.txt")
```

```
C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe "C:\Users\ARCHANA\PycharmPro
The file 'example.txt' was not found.

Process finished with exit code 0
```

2.
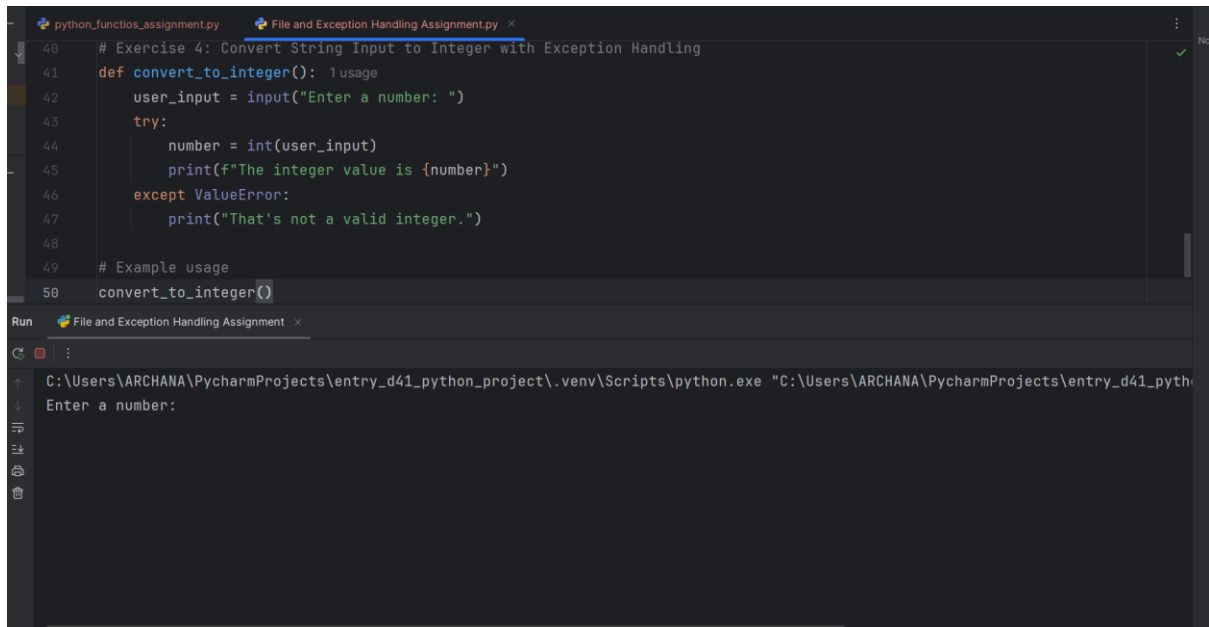
```
def copy_file(source_filename, target_filename):  1 usage
            target_file.write(content)
        print(f"Contents copied from {source_filename} to {target_filename}")
    except FileNotFoundError:
        print(f"Source file '{source_filename}' not found.")

# Example usage
copy_file( source_filename: "source.txt",  target_filename: "destination.txt")
```

```
C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe "C:\Users\ARCHANA\PycharmProject
Source file 'source.txt' not found.

Process finished with exit code 0
```
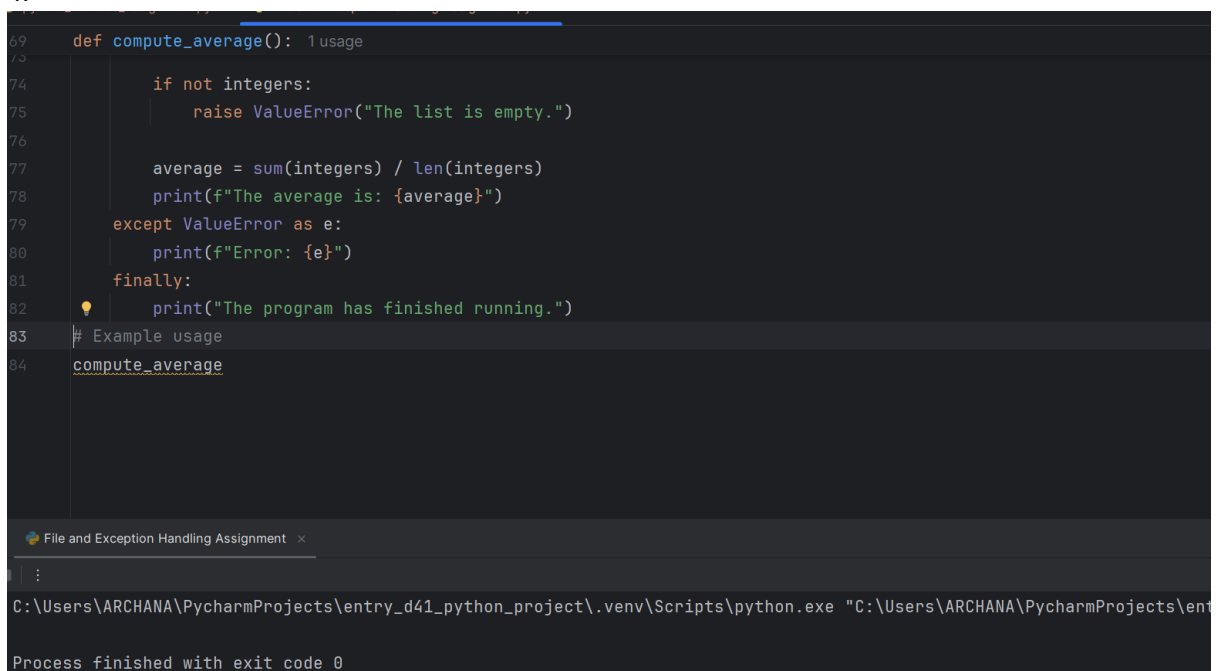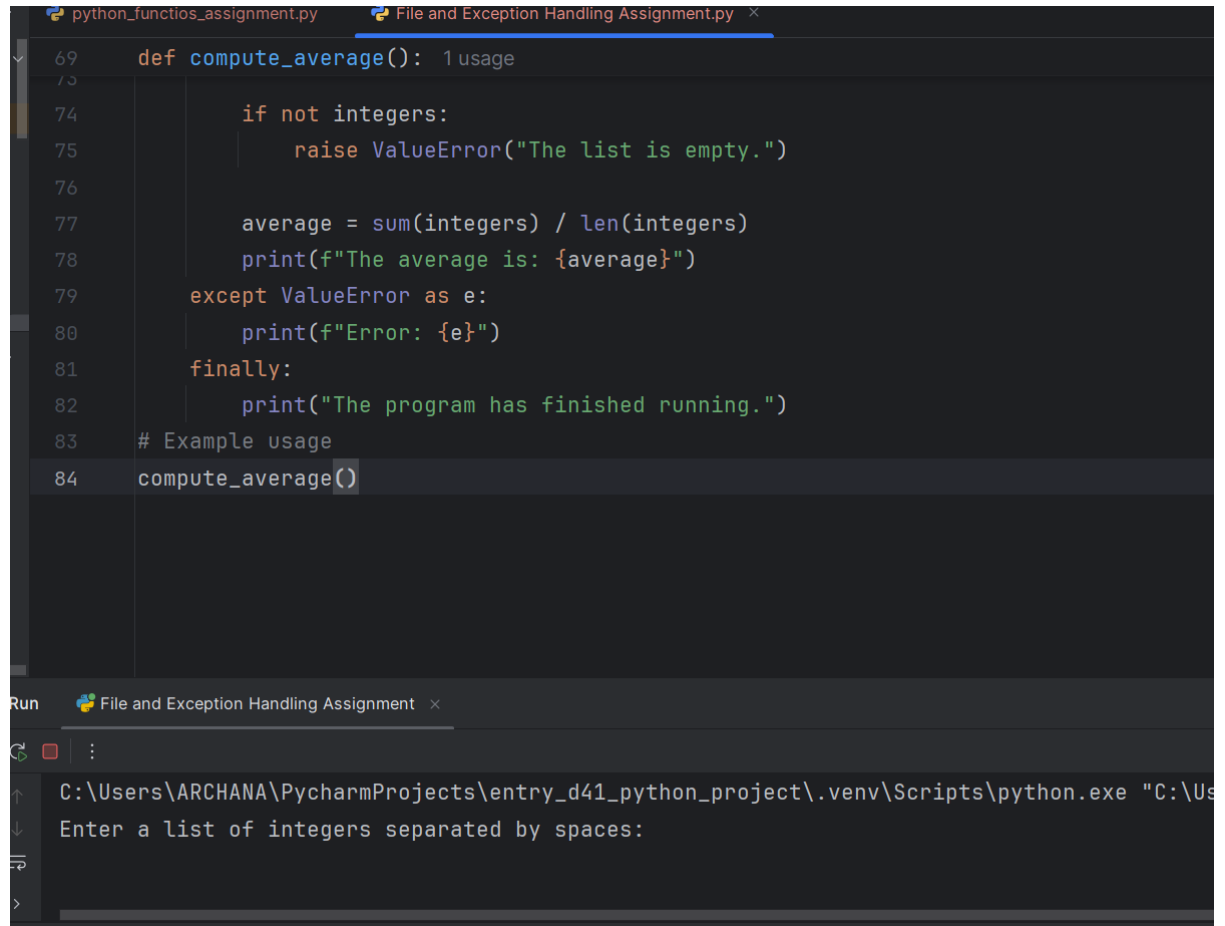
3.

```
python_functios_assignment.py          File and Exception Handling Assignment.py  ×
40    # Exercise 4: Convert String Input to Integer with Exception Handling
41    def convert_to_integer():  1 usage
42        user_input = input("Enter a number: ")
43        try:
44            number = int(user_input)
45            print(f"The integer value is {number}")
46        except ValueError:
47            print("That's not a valid integer.")
48
49    # Example usage
50    convert_to_integer()
```

```
Run     File and Exception Handling Assignment  ×

C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe "C:\Users\ARCHANA\PycharmProjects\entry_d41_pyth
Enter a number:
```

4.

```
69    def compute_average():  1 usage
73
74            if not integers:
75                raise ValueError("The list is empty.")
76
77            average = sum(integers) / len(integers)
78            print(f"The average is: {average}")
79        except ValueError as e:
80            print(f"Error: {e}")
81        finally:
82            print("The program has finished running.")
83    # Example usage
84    compute_average
```

```
File and Exception Handling Assignment  ×

C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe "C:\Users\ARCHANA\PycharmProjects\ent

Process finished with exit code 0
```

5.

```
69      def compute_average():  1 usage
73
74              if not integers:
75                  raise ValueError("The list is empty.")
76
77              average = sum(integers) / len(integers)
78              print(f"The average is: {average}")
79          except ValueError as e:
80              print(f"Error: {e}")
81          finally:
82              print("The program has finished running.")
83      # Example usage
84      compute_average()
```

Run   File and Exception Handling Assignment ×

C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe "C:\Us
Enter a list of integers separated by spaces:

6.

```python
def write_to_file():  1 usage

    try:
        with open(filename, 'w') as file:
            file.write(content)
            print(          file: TextIO          ⌀  ⋮     to {filename}")
        except Exception as e:
            print(f"An error occurred: {e}")
        else:
            print("Welcome! No exceptions occurred.")


    # Example usage
    write_to_file()
```

File and Exception Handling Assignment ×

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:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.

nter a filename: |