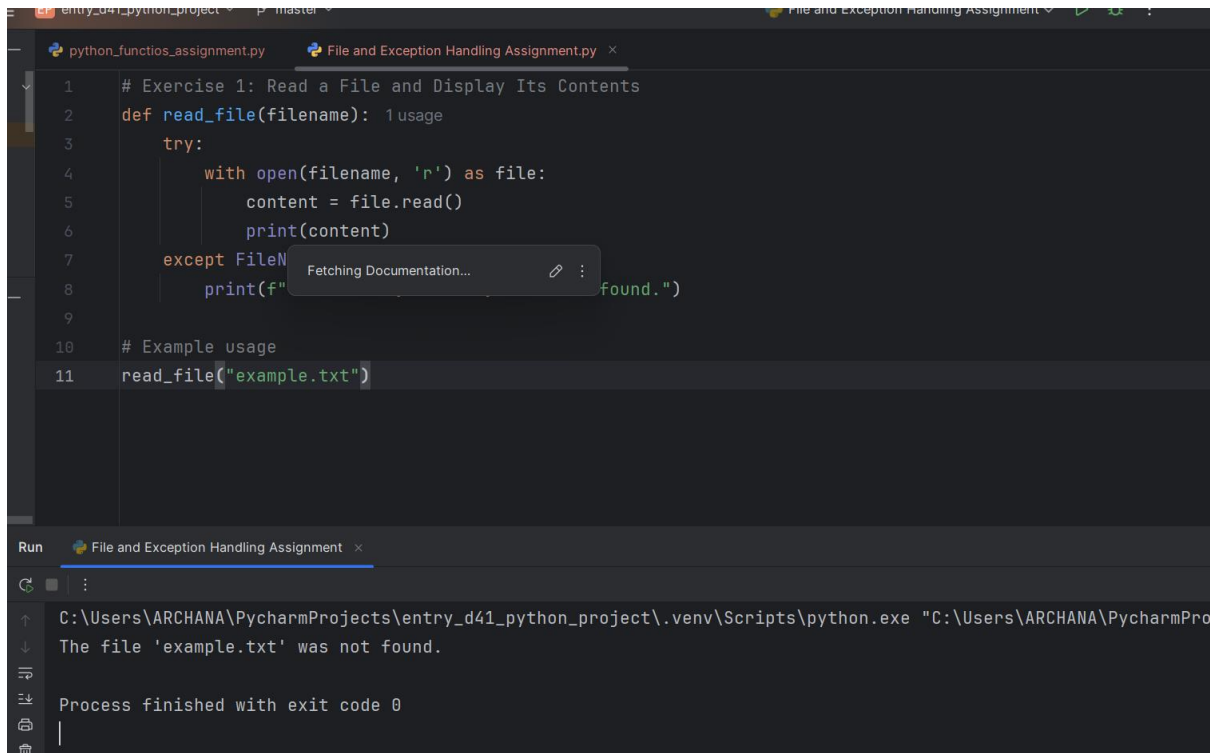


5_File and Exception Handling

1.



The screenshot shows the PyCharm IDE with a Python file named `File and Exception Handling Assignment.py`. The code defines a function `read_file(filename)` that attempts to read a file. It uses a `try` block with `open(filename, 'r')` to open the file and `file.read()` to read its contents. If the file is not found, it catches a `FileNotFoundError` and prints a message. An example usage is provided at the bottom, calling `read_file("example.txt")`. The Run window at the bottom shows the execution output: "The file 'example.txt' was not found." and "Process finished with exit code 0".

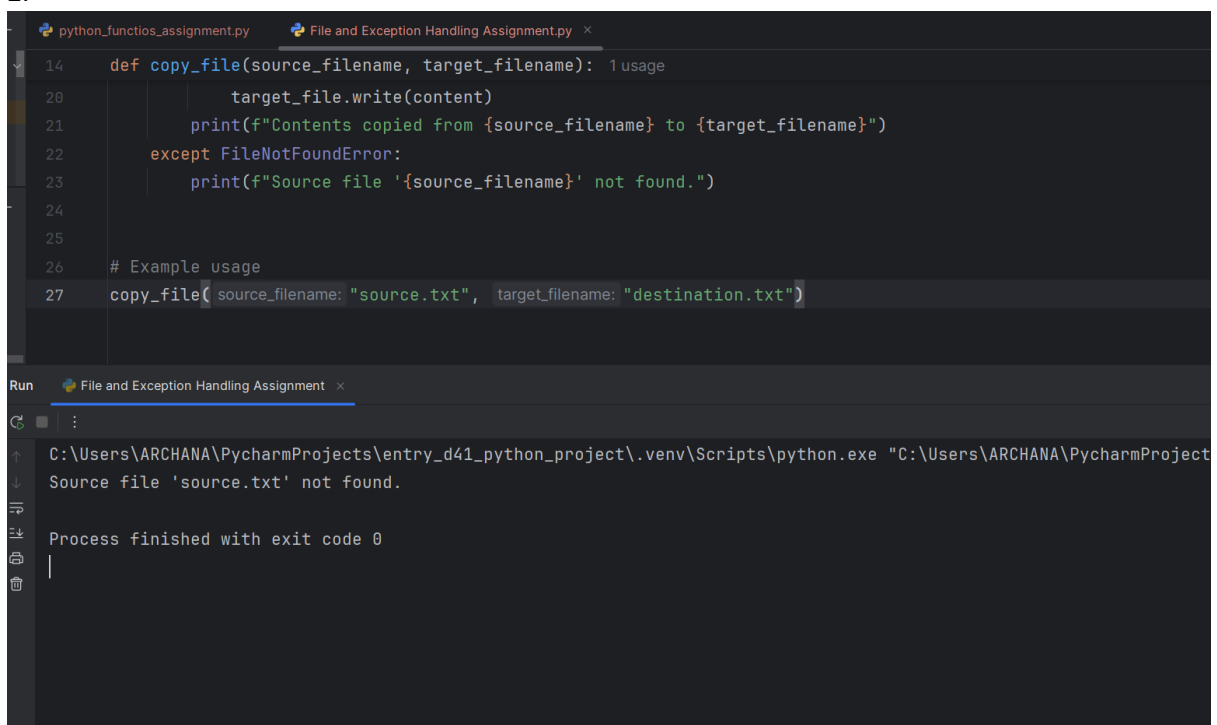
```
1 # Exercise 1: Read a File and Display Its Contents
2 def read_file(filename):
3     try:
4         with open(filename, 'r') as file:
5             content = file.read()
6             print(content)
7     except FileNotFoundError:
8         print(f"The file '{filename}' was not found.")
9
10 # Example usage
11 read_file("example.txt")
```

Run File and Exception Handling Assignment

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

Process finished with exit code 0

2.



The screenshot shows the PyCharm IDE with a Python file named `File and Exception Handling Assignment.py`. The code defines a function `copy_file(source_filename, target_filename)` that attempts to copy a file. It uses a `try` block with `open(source_filename, 'r')` to read the source file and `target_file.write(content)` to write it to the target file. If the source file is not found, it catches a `FileNotFoundError` and prints a message. An example usage is provided at the bottom, calling `copy_file("source.txt", "destination.txt")`. The Run window at the bottom shows the execution output: "Source file 'source.txt' not found." and "Process finished with exit code 0".

```
14 def copy_file(source_filename, target_filename):
15     try:
16         with open(source_filename, 'r') as source_file:
17             content = source_file.read()
18         target_file = open(target_filename, 'w')
19         target_file.write(content)
20         print(f"Contents copied from {source_filename} to {target_filename}")
21     except FileNotFoundError:
22         print(f"Source file '{source_filename}' not found.")
23
24 # Example usage
25
26 # Example usage
27 copy_file(source_filename="source.txt", target_filename="destination.txt")
```

Run File and Exception Handling Assignment

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_functions_assignment.py  File and Exception Handling Assignment.py x
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 x

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

4.

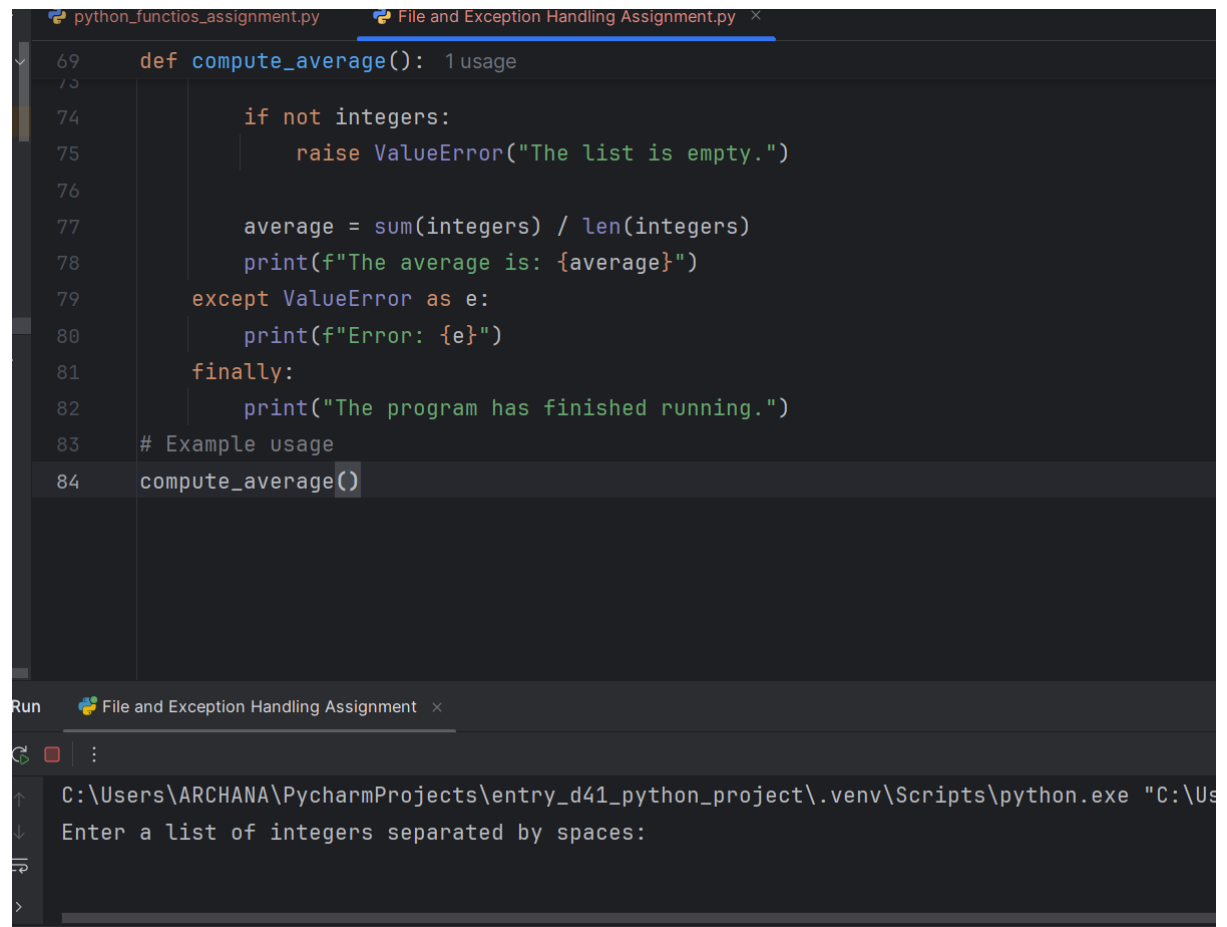
```
69 def compute_average(): 1 usage
70
71     if not integers:
72         raise ValueError("The list is empty.")
73
74     average = sum(integers) / len(integers)
75     print(f"The average is: {average}")
76
77     except ValueError as e:
78         print(f"Error: {e}")
79
80     finally:
81         print("The program has finished running.")
82
83 # Example usage
84 compute_average
```

File and Exception Handling Assignment x

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

Process finished with exit code 0

5.



The screenshot displays the PyCharm IDE interface. The top toolbar includes icons for running and debugging. The main editor window shows a Python file named 'python_funcios_assignment.py' with the following code:

```
69 def compute_average(): 1 usage
70
71
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()
```

Below the editor, the 'Run' console is visible, showing the command prompt output:

```
Run File and Exception Handling Assignment x
C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe "C:\Us
Enter a list of integers separated by spaces:
```

6.

```
python_functions_assignment.py File and Exception Handling Assignment.py
36 def write_to_file(): 1 usage
39
40     try:
41         with open(filename, 'w') as file:
42             file.write(content)
43             print(f"Content successfully written to {filename}")
44     except Exception as e:
45         print(f"An error occurred: {e}")
46     else:
47         print("Welcome! No exceptions occurred.")
48
49
50 # Example usage
51 write_to_file()
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