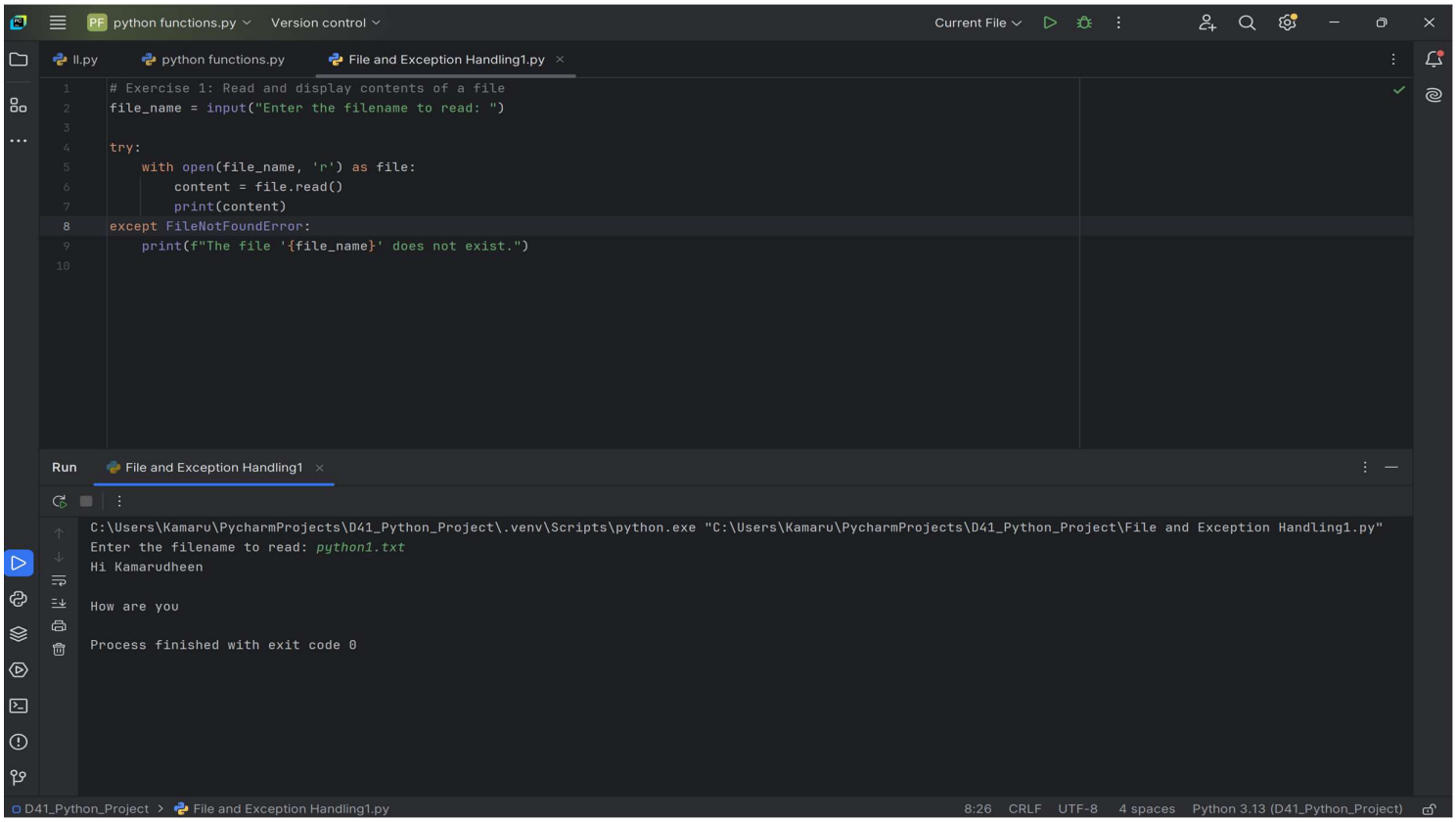
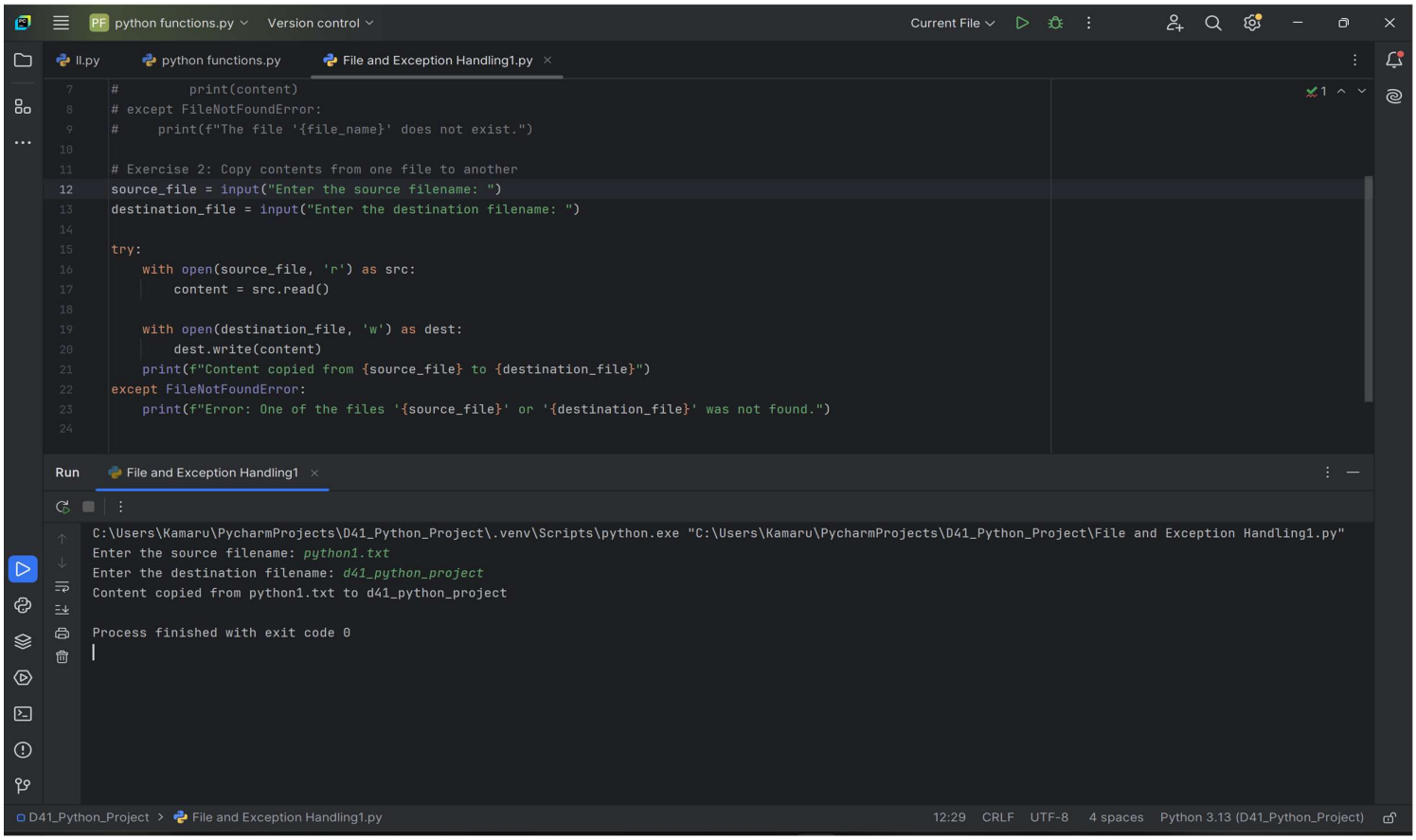
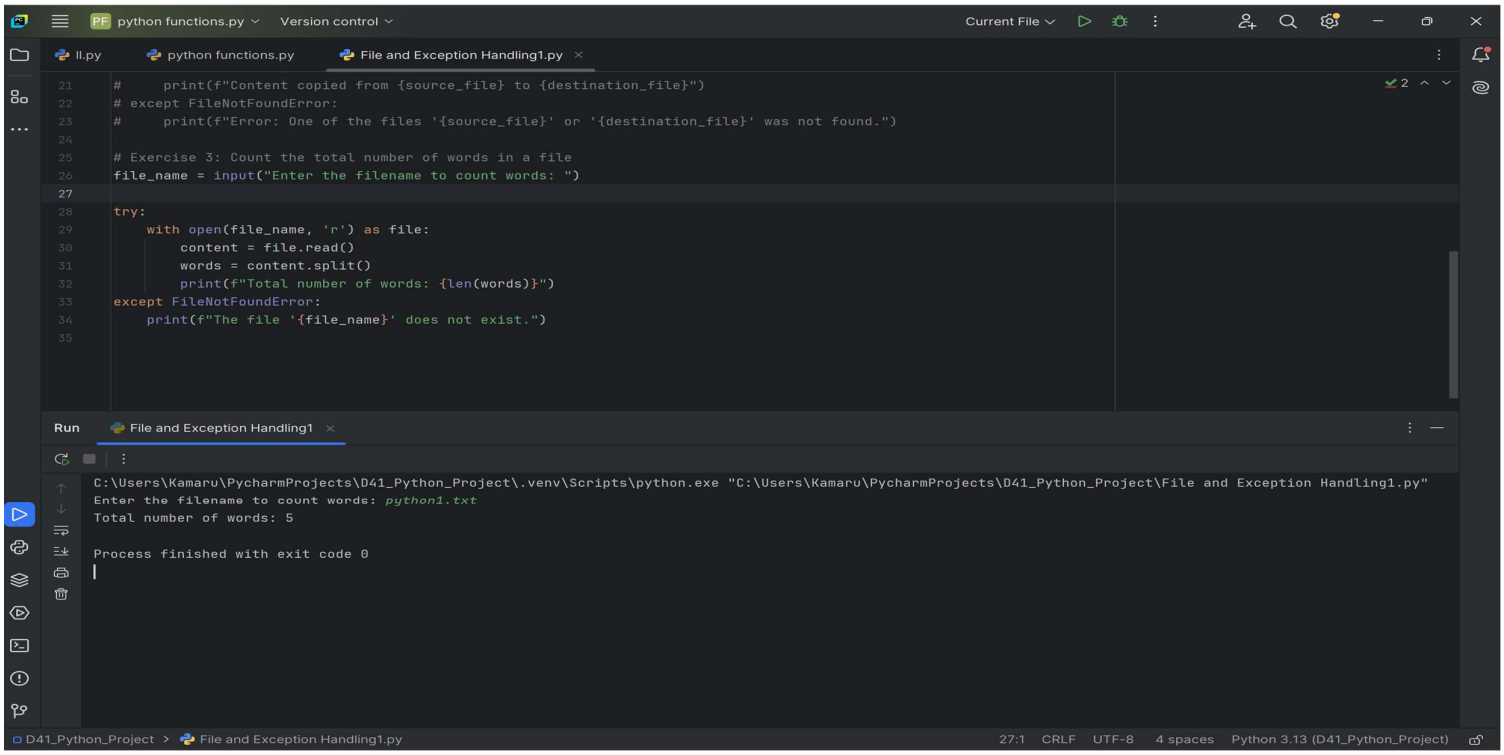
EXERCISE 1



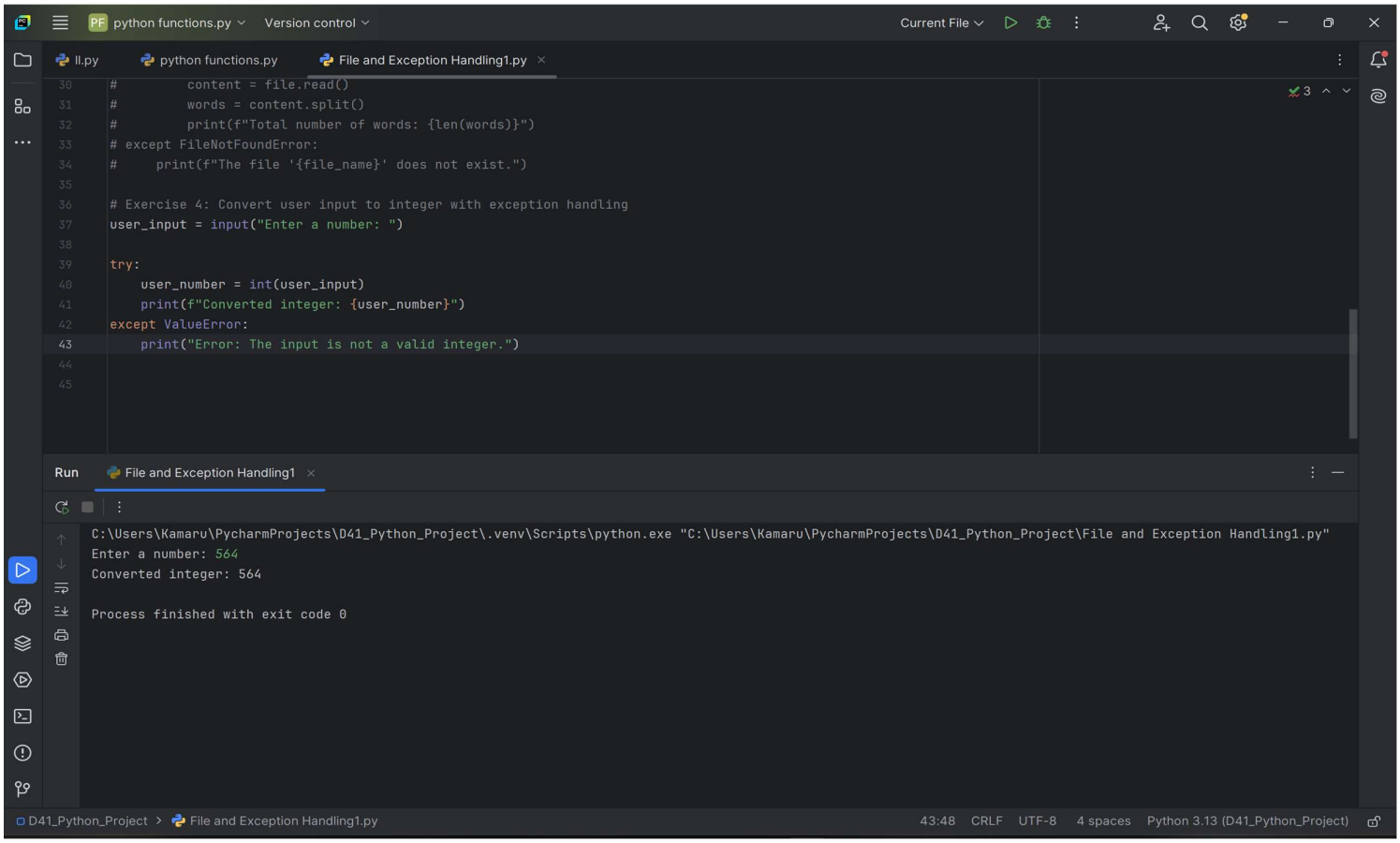
EXERCISE 2

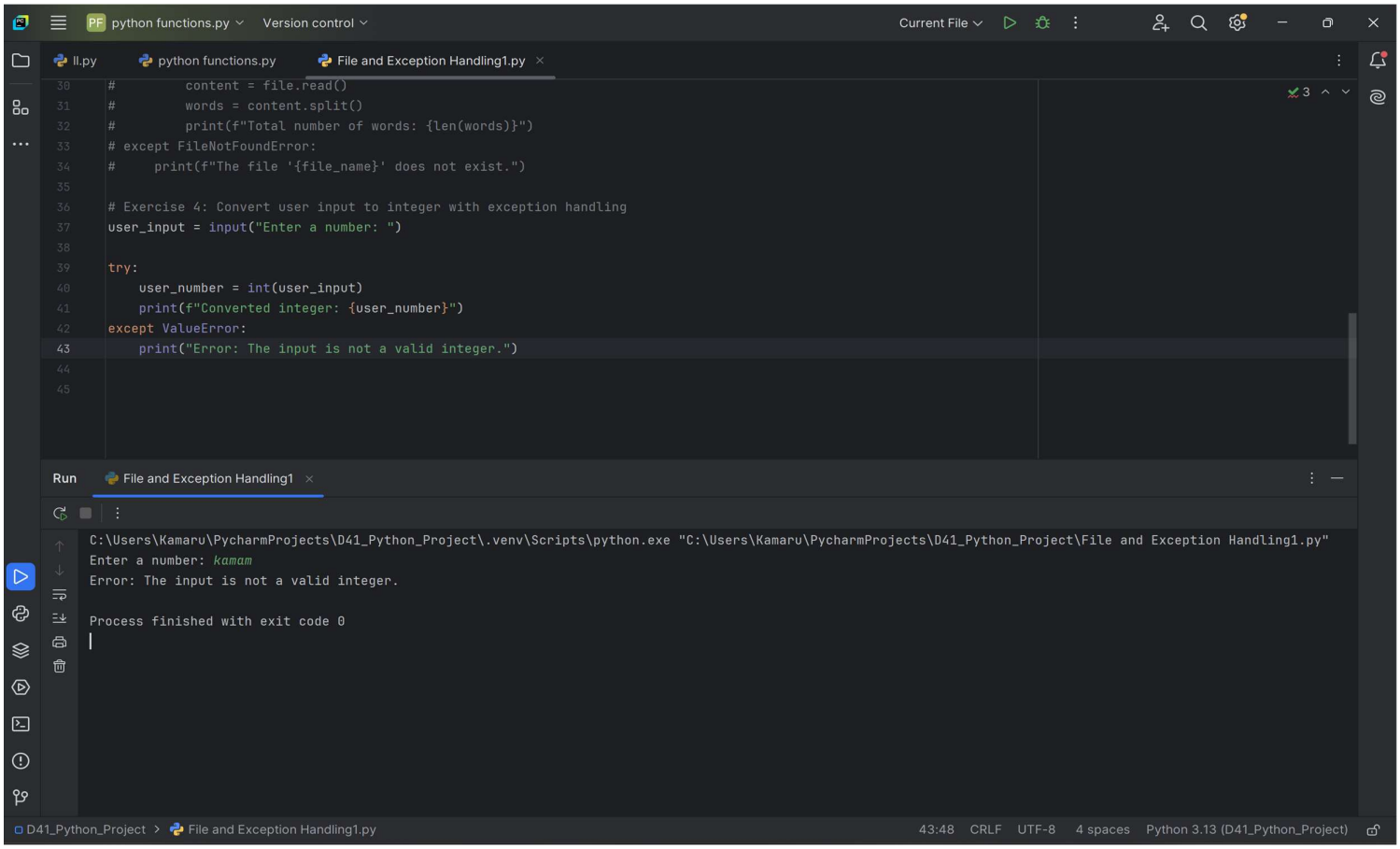


EXERCISE 3

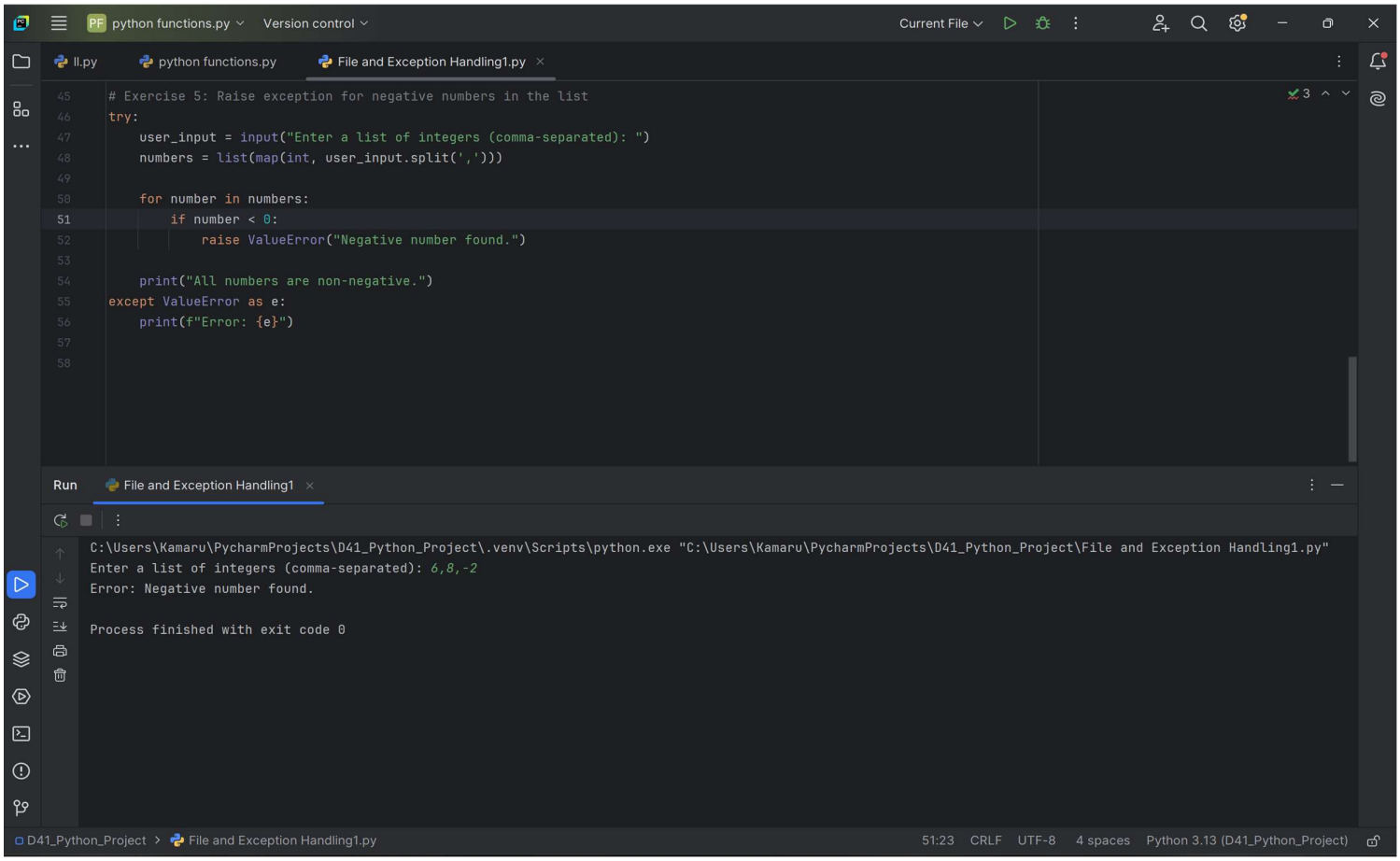


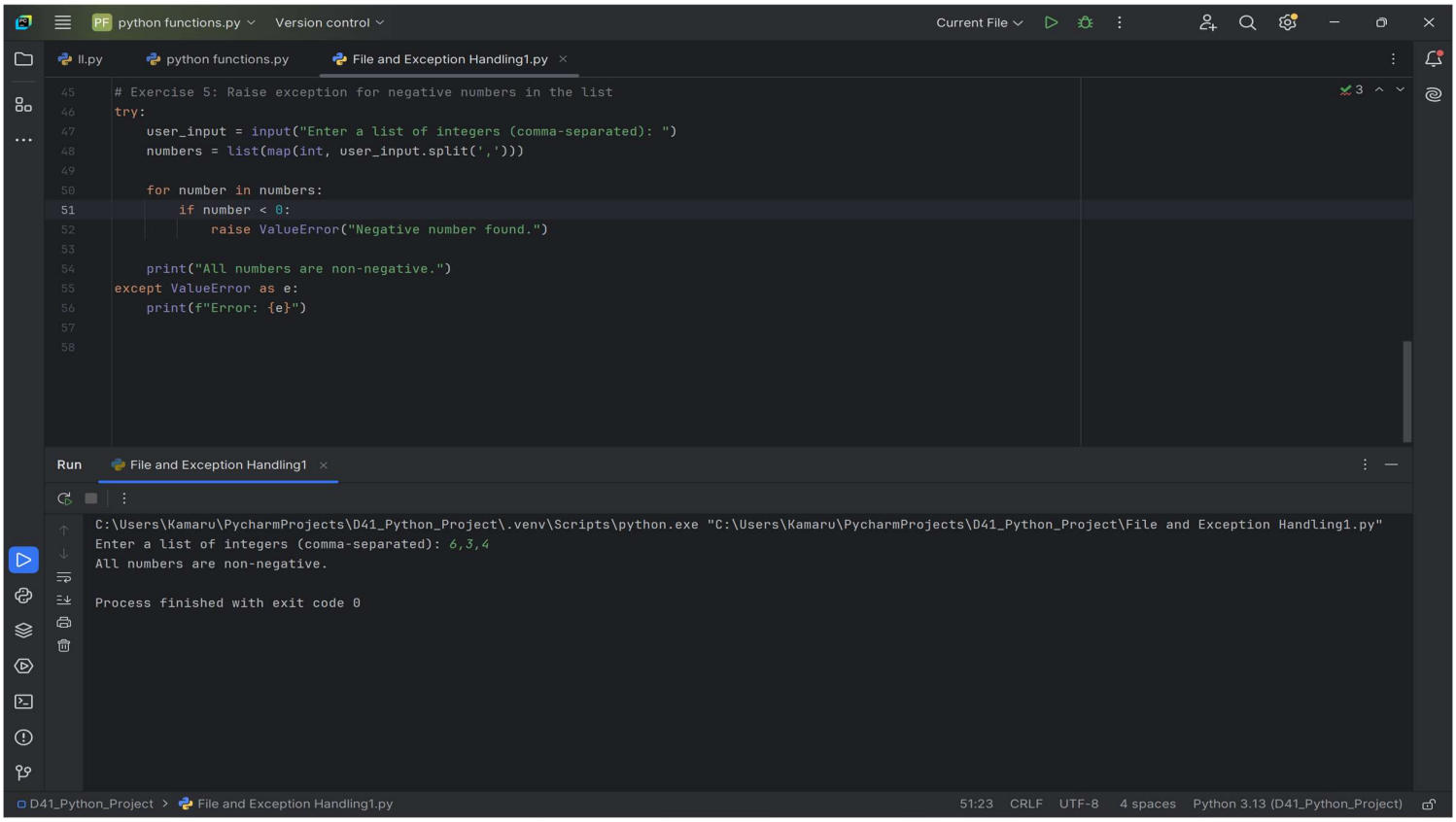
EXERCISE 4



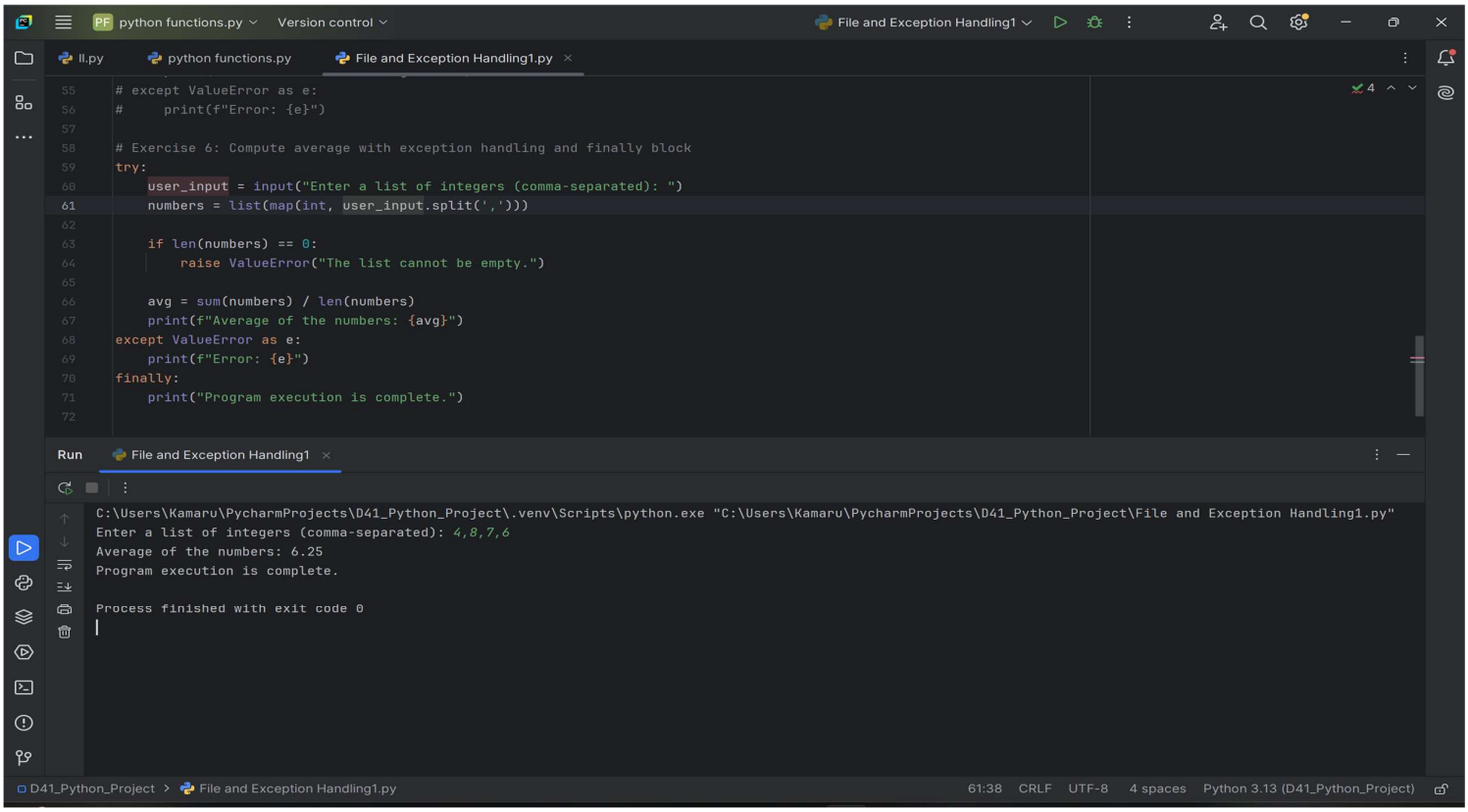

python functions.py
Version control
Current File
ll.py
python functions.py
File and Exception Handling1.py
# content = file.read()
# words = content.split()
# print(f"Total number of words: {len(words)}")
# except FileNotFoundError:
# print(f"The file '{file_name}' does not exist.")
# Exercise 4: Convert user input to integer with exception handling
user_input = input("Enter a number: ")
try:
user_number = int(user_input)
print(f"Converted integer: {user_number}")
except ValueError:
print("Error: The input is not a valid integer.")
Run
File and Exception Handling1
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\File and Exception Handling1.py"
Enter a number: kamam
Error: The input is not a valid integer.
Process finished with exit code 0
D41_Python_Project
File and Exception Handling1.py
43:48
CRLF
UTF-8
4 spaces
Python 3.13 (D41_Python_Project)

EXERCISE 5

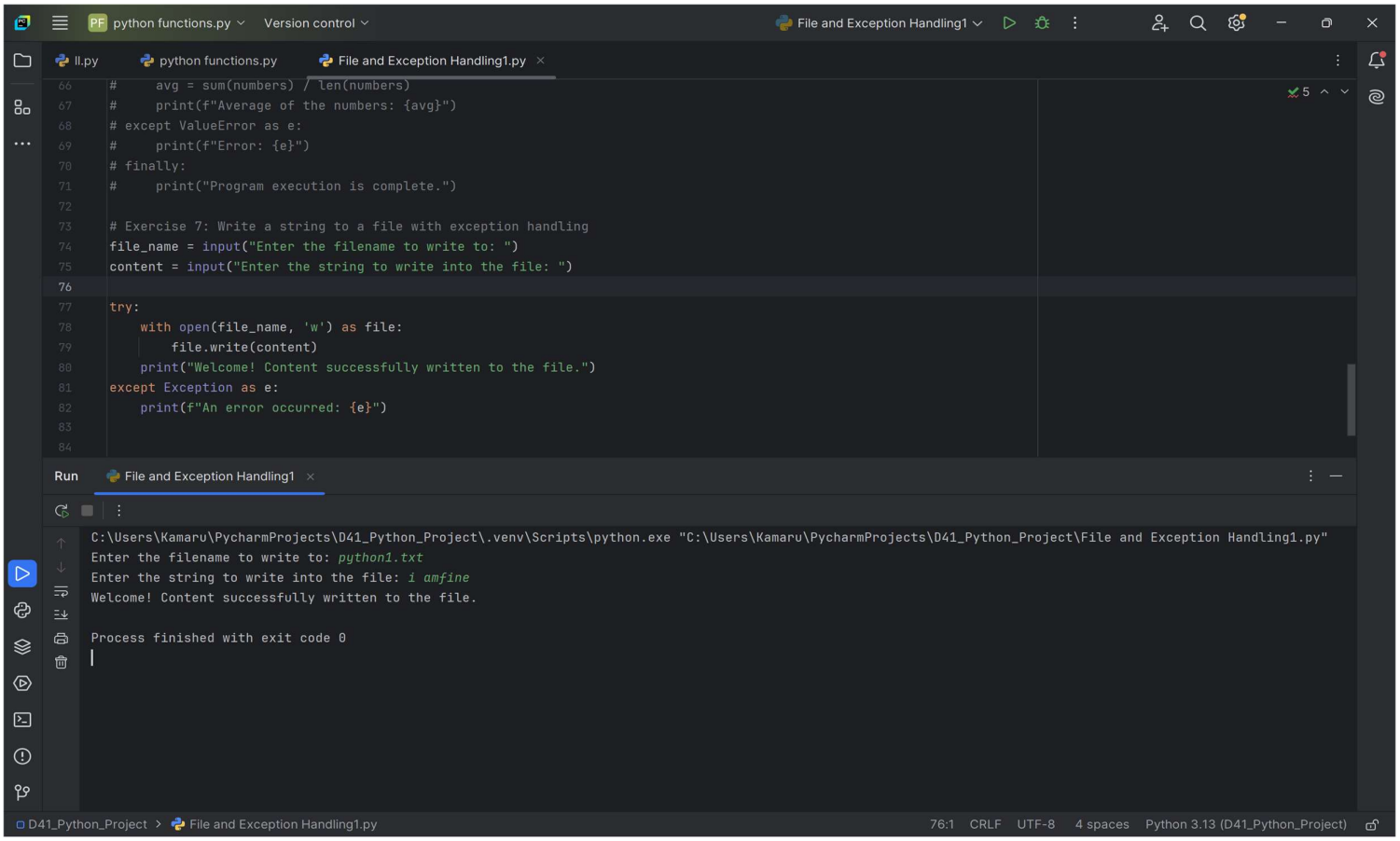

python functions.py
Version control
Current File
ll.py
python functions.py
File and Exception Handling1.py
# Exercise 5: Raise exception for negative numbers in the list
try:
user_input = input("Enter a list of integers (comma-separated): ")
numbers = list(map(int, user_input.split(',')))
for number in numbers:
if number < 0:
raise ValueError("Negative number found.")
print("All numbers are non-negative.")
except ValueError as e:
print(f"Error: {e}")
Run
File and Exception Handling1
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\File and Exception Handling1.py"
Enter a list of integers (comma-separated): 6,8,-2
Error: Negative number found.
Process finished with exit code 0
D41_Python_Project
File and Exception Handling1.py
51:23
CRLF
UTF-8
4 spaces
Python 3.13 (D41_Python_Project)


python functions.py
Version control
Current File
ll.py
python functions.py
File and Exception Handling1.py
# Exercise 5: Raise exception for negative numbers in the list
try:
user_input = input("Enter a list of integers (comma-separated): ")
numbers = list(map(int, user_input.split(',')))
for number in numbers:
if number < 0:
raise ValueError("Negative number found.")
print("All numbers are non-negative.")
except ValueError as e:
print(f"Error: {e}")
Run
File and Exception Handling1
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\File and Exception Handling1.py"
Enter a list of integers (comma-separated): 6,3,4
All numbers are non-negative.
Process finished with exit code 0
D41_Python_Project > File and Exception Handling1.py
51:23 CRLF UTF-8 4 spaces Python 3.13 (D41_Python_Project)

EXERCISE 6


python functions.py
Version control
File and Exception Handling1
ll.py
python functions.py
File and Exception Handling1.py
# except ValueError as e:
# print(f"Error: {e}")
# Exercise 6: Compute average with exception handling and finally block
try:
user_input = input("Enter a list of integers (comma-separated): ")
numbers = list(map(int, user_input.split(',')))
if len(numbers) == 0:
raise ValueError("The list cannot be empty.")
avg = sum(numbers) / len(numbers)
print(f"Average of the numbers: {avg}")
except ValueError as e:
print(f"Error: {e}")
finally:
print("Program execution is complete.")
Run
File and Exception Handling1
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\File and Exception Handling1.py"
Enter a list of integers (comma-separated): 4,8,7,6
Average of the numbers: 6.25
Program execution is complete.
Process finished with exit code 0
D41_Python_Project > File and Exception Handling1.py
61:38 CRLF UTF-8 4 spaces Python 3.13 (D41_Python_Project)

EXERCISE 7


python functions.py
Version control
File and Exception Handling1
ll.py
python functions.py
File and Exception Handling1.py
#   avg = sum(numbers) / len(numbers)
#   print(f"Average of the numbers: {avg}")
# except ValueError as e:
#   print(f"Error: {e}")
# finally:
#   print("Program execution is complete.")
# Exercise 7: Write a string to a file with exception handling
file_name = input("Enter the filename to write to: ")
content = input("Enter the string to write into the file: ")
try:
with open(file_name, 'w') as file:
file.write(content)
print("Welcome! Content successfully written to the file.")
except Exception as e:
print(f"An error occurred: {e}")
Run
File and Exception Handling1
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\File and Exception Handling1.py"
Enter the filename to write to: python1.txt
Enter the string to write into the file: i amfine
Welcome! Content successfully written to the file.
Process finished with exit code 0
D41_Python_Project
File and Exception Handling1.py
76:1
CRLF
UTF-8
4 spaces
Python 3.13 (D41_Python_Project)