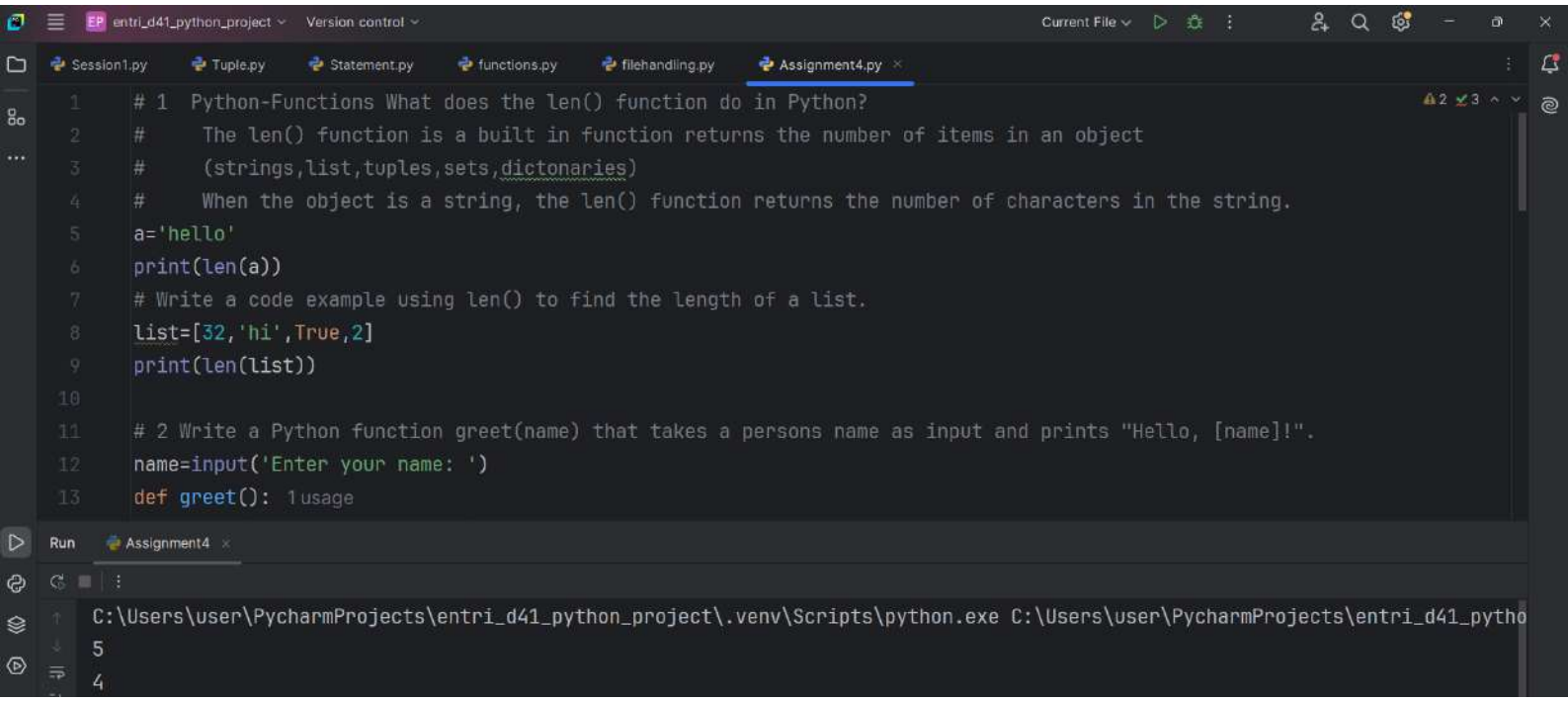
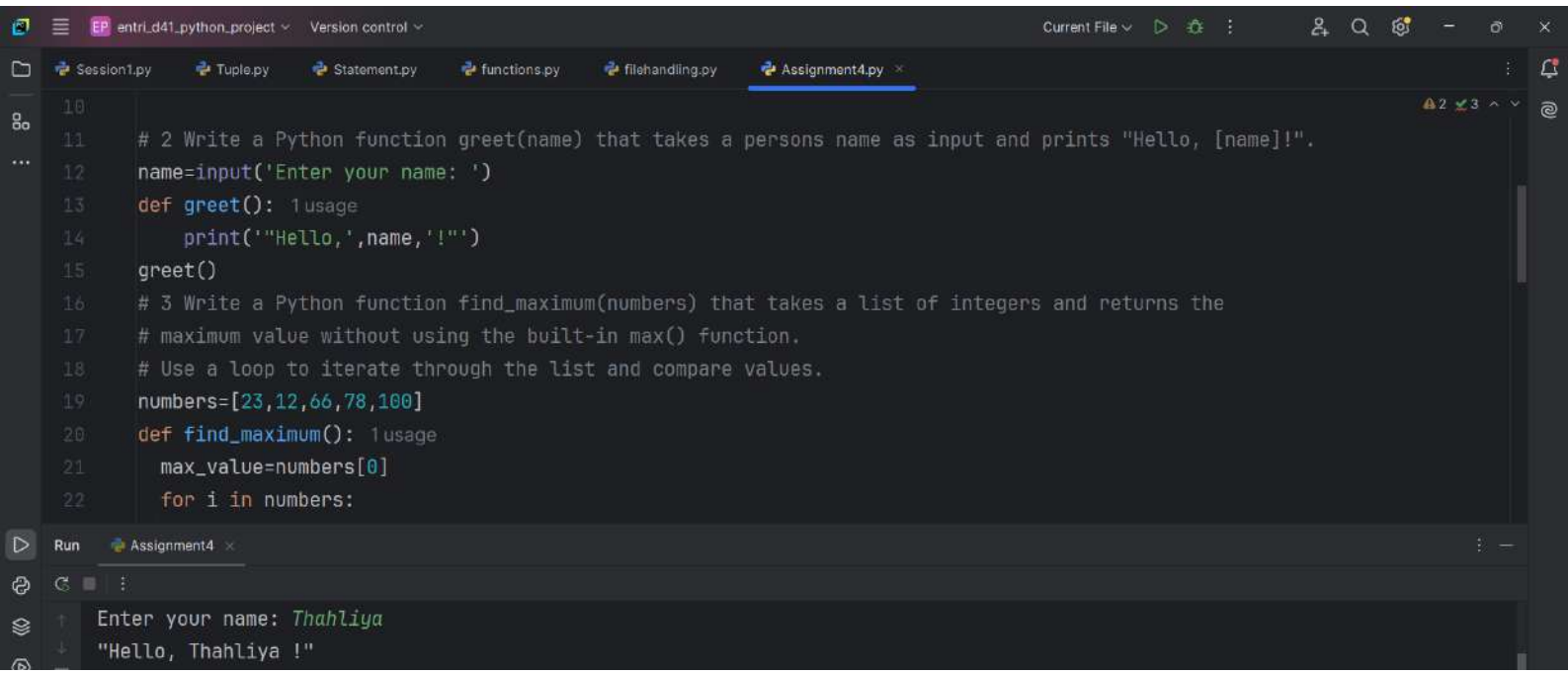

entri_d41_python_project
Version control
Current File
Session1.py
Tuple.py
Statement.py
functions.py
filehandling.py
Assignment4.py
# 1 Python-Functions What does the len() function do in Python?
# The len() function is a built in function returns the number of items in an object
# (strings,list,tuples,sets,dictonaries)
# When the object is a string, the len() function returns the number of characters in the string.
a='hello'
print(len(a))
# Write a code example using len() to find the length of a list.
list=[32,'hi',True,2]
print(len(list))
# 2 Write a Python function greet(name) that takes a persons name as input and prints "Hello, [name]!".
name=input('Enter your name: ')
def greet(): 1 usage
Run
Assignment4
C:\Users\user\PycharmProjects\entri_d41_python_project\.venv\Scripts\python.exe C:\Users\user\PycharmProjects\entri_d41_pytho
5
4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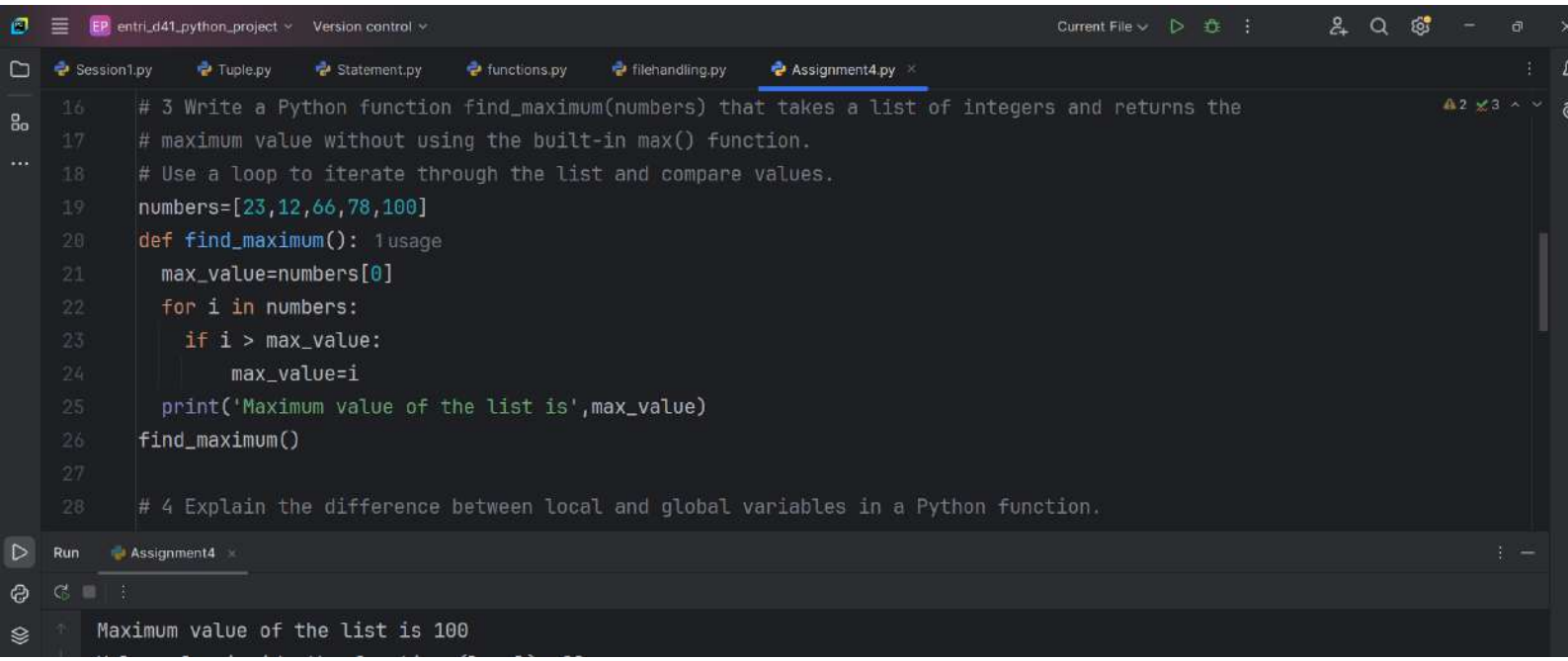
# 2 Write a Python function greet(name) that takes a persons name as input and prints "Hello, [name]!".
name=input('Enter your name: ')
def greet(): 1 usage
print('"Hello,',name,'!"')
greet()
# 3 Write a Python function find_maximum(numbers) that takes a list of integers and returns the
# maximum value without using the built-in max() function.
# Use a loop to iterate through the list and compare values.
numbers=[23,12,66,78,100]
def find_maximum(): 1 usage
max_value=numbers[0]
for i in numbers:
Run
Assignment4
Enter your name: Thahliya
"Hello, Thahliya !"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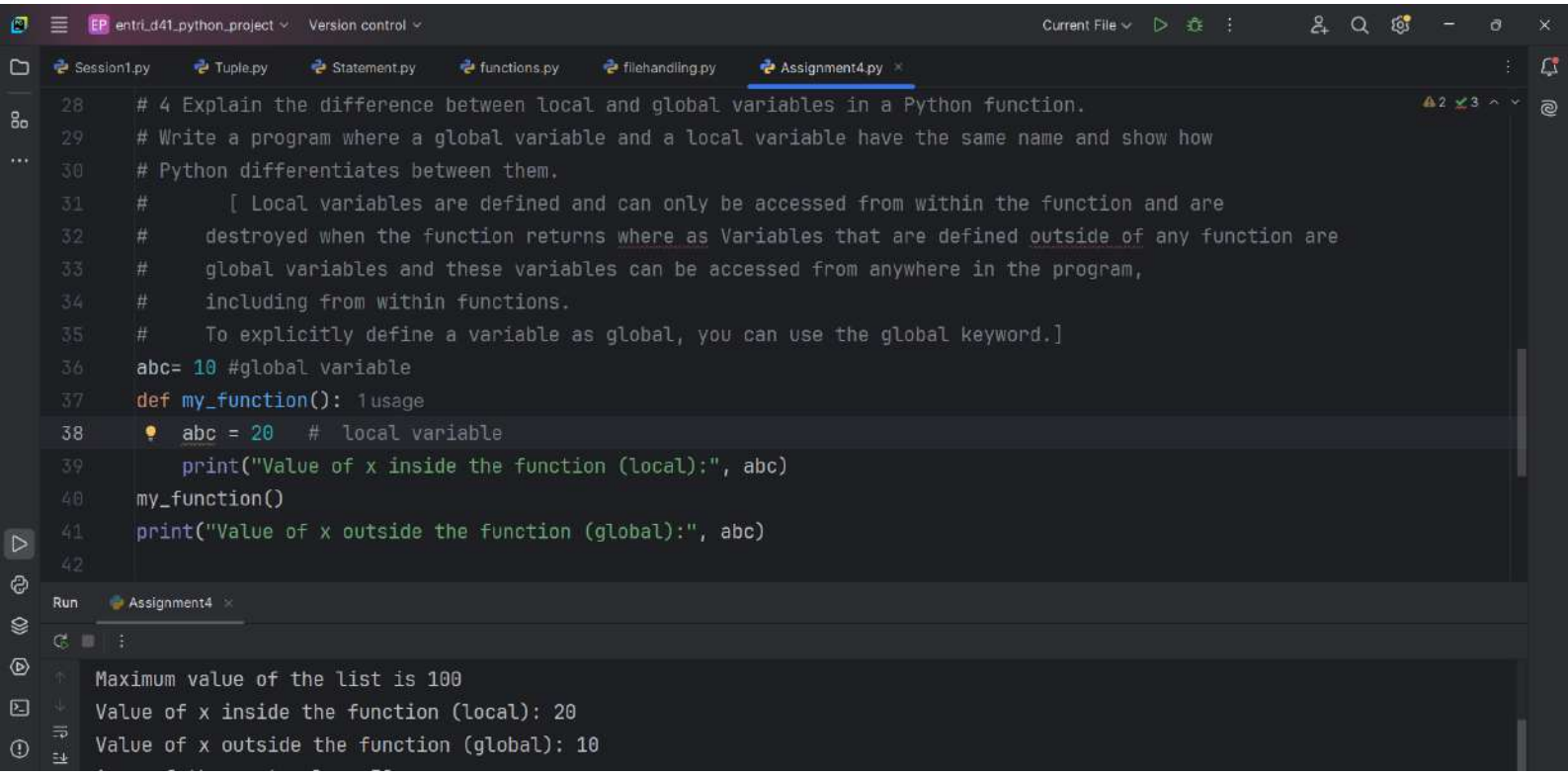
# 3 Write a Python function find_maximum(numbers) that takes a list of integers and returns the
# maximum value without using the built-in max() function.
# Use a loop to iterate through the list and compare values.
numbers=[23,12,66,78,100]
def find_maximum(): 1 usage
max_value=numbers[0]
for i in numbers:
if i > max_value:
max_value=i
print('Maximum value of the list is',max_value)
find_maximum()
# 4 Explain the difference between local and global variables in a Python function.
Run
Assignment4
Maximum value of the list is 100


entri_d41_python_project
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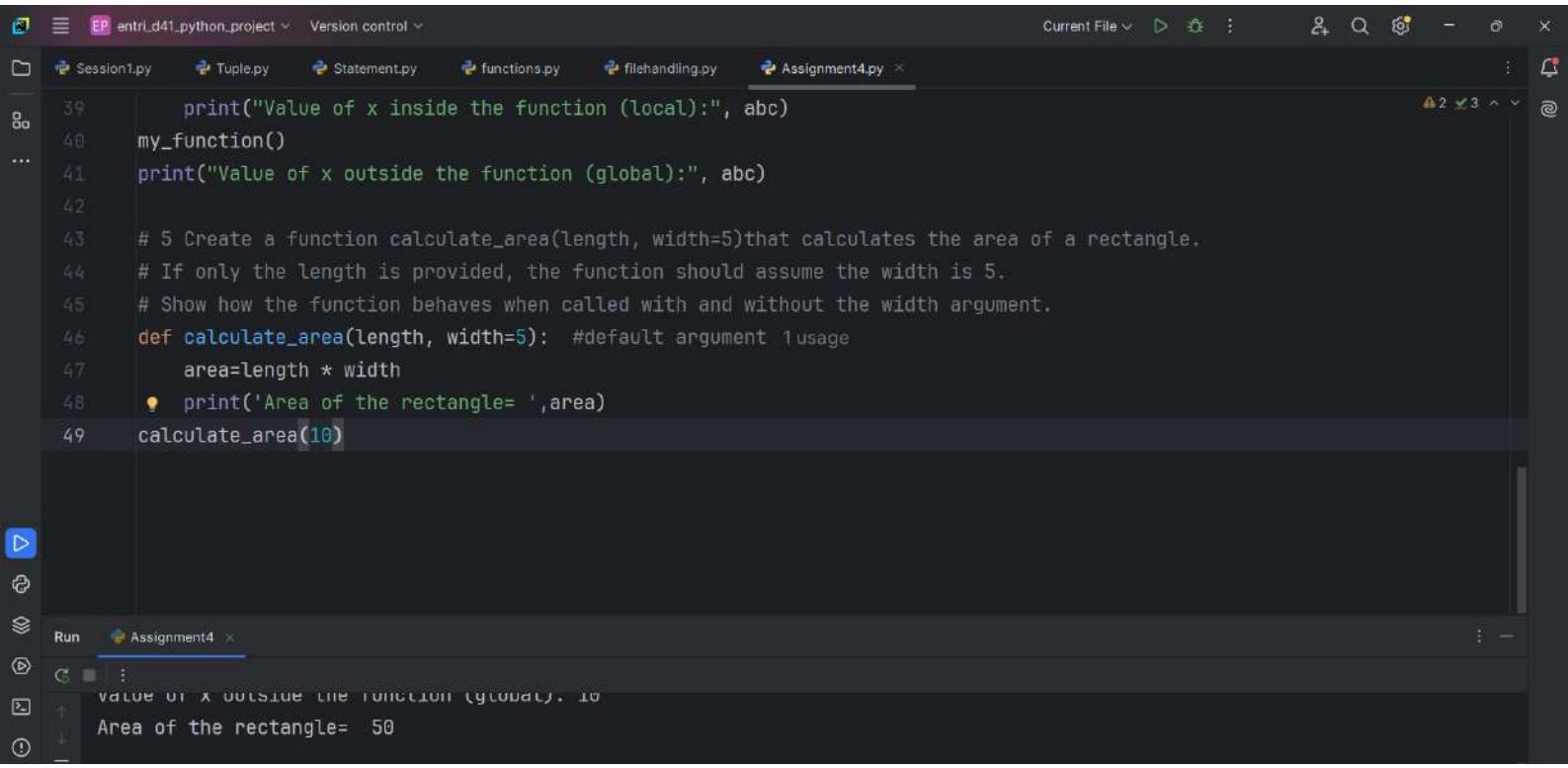
Assignment4.py
# 4 Explain the difference between local and global variables in a Python function.
# Write a program where a global variable and a local variable have the same name and show how
# Python differentiates between them.
# [Local variables are defined and can only be accessed from within the function and are
# destroyed when the function returns where as Variables that are defined outside of any function are
# global variables and these variables can be accessed from anywhere in the program,
# including from within functions.
# To explicitly define a variable as global, you can use the global keyword.]
abc= 10 #global variable
def my_function(): 1 usage
abc = 20 # local variable
print("Value of x inside the function (local):", abc)
my_function()
print("Value of x outside the function (global):", abc)
Run
Assignment4
Maximum value of the list is 100
Value of x inside the function (local): 20
Value of x outside the function (global): 10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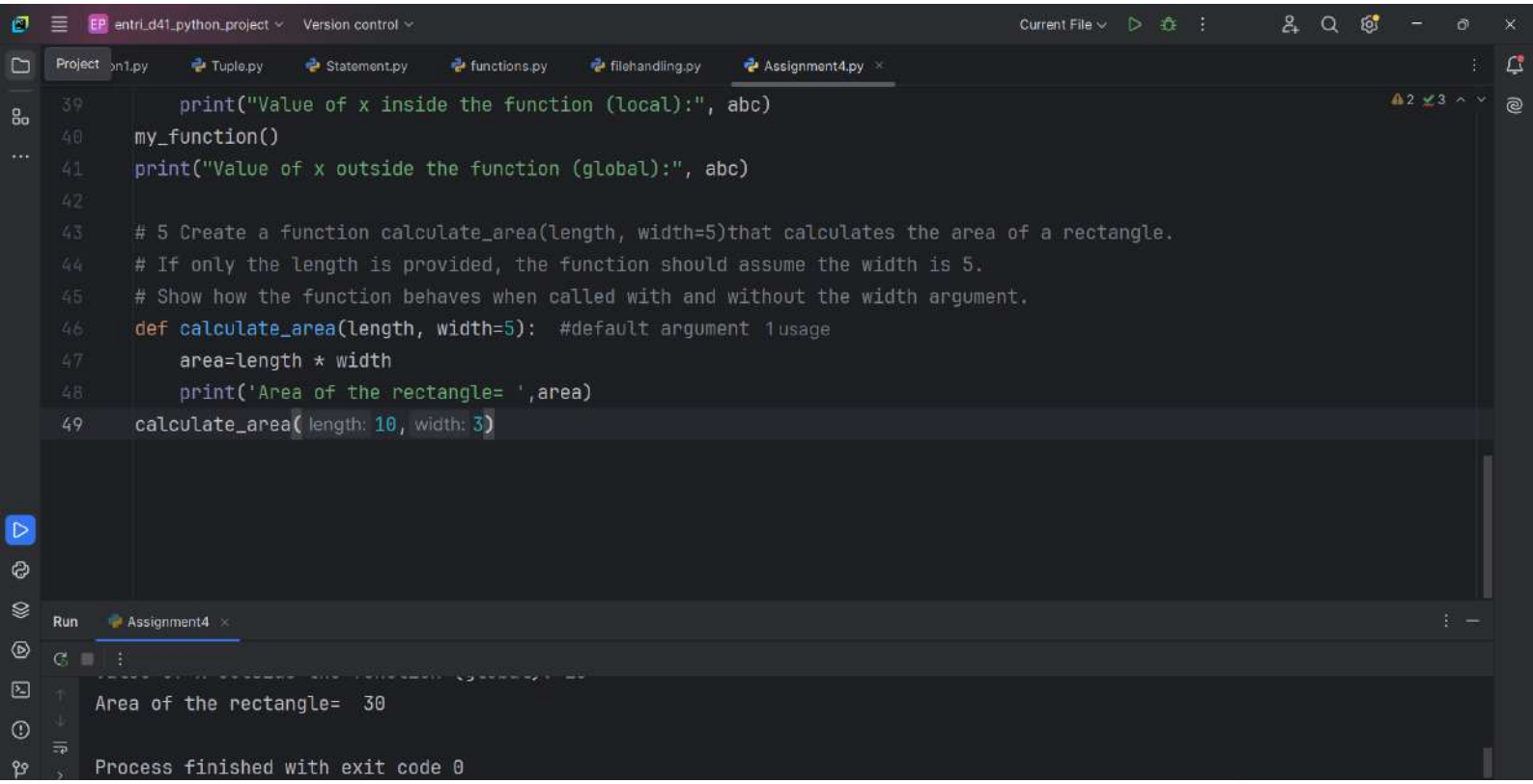
print("Value of x inside the function (local):", abc)
my_function()
print("Value of x outside the function (global):", abc)
# 5 Create a function calculate_area(length, width=5)that calculates the area of a rectangle.
# If only the length is provided, the function should assume the width is 5.
# Show how the function behaves when called with and without the width argument.
def calculate_area(length, width=5): #default argument 1 usage
area=length * width
print('Area of the rectangle= ',area)
calculate_area(10)
Run
Assignment4
Value of x outside the function (global): 10
Area of the rectangle= 50


entri_d41_python_project
Version control
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Tuple.py
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filehandling.py
Assignment4.py
print("Value of x inside the function (local):", abc)
my_function()
print("Value of x outside the function (global):", abc)
# 5 Create a function calculate_area(length, width=5)that calculates the area of a rectangle.
# If only the length is provided, the function should assume the width is 5.
# Show how the function behaves when called with and without the width argument.
def calculate_area(length, width=5): #default argument 1 usage
area=length * width
print('Area of the rectangle= ',area)
calculate_area(length: 10, width: 3)
Run
Assignment4
Area of the rectangle= 30
Process finished with exit code 0