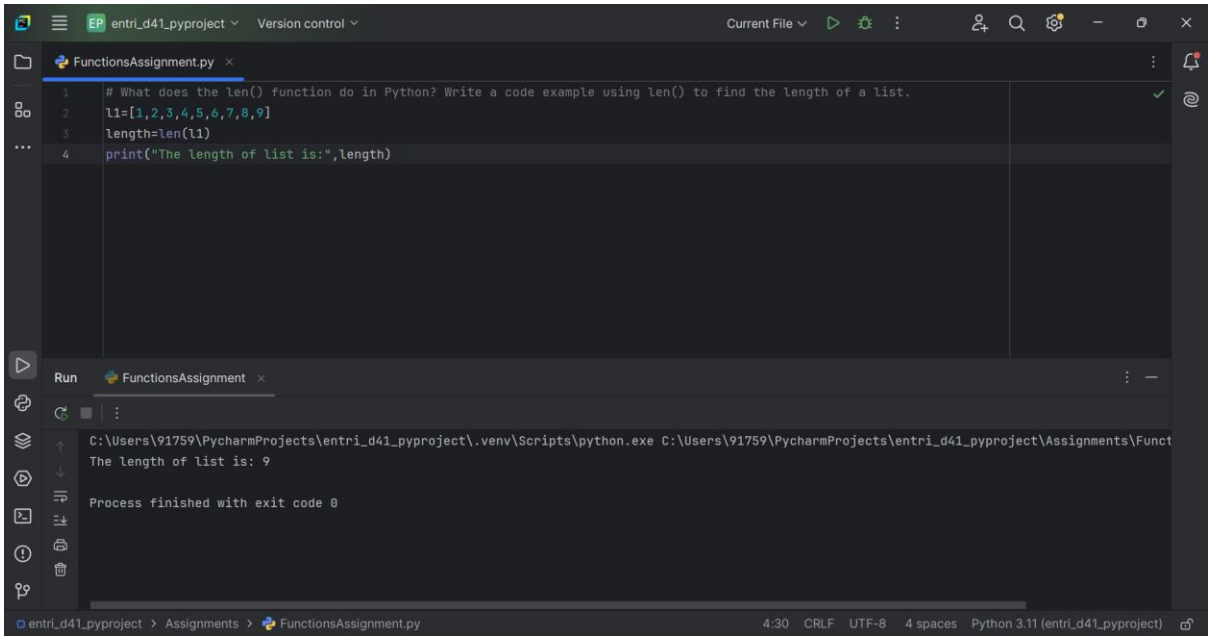
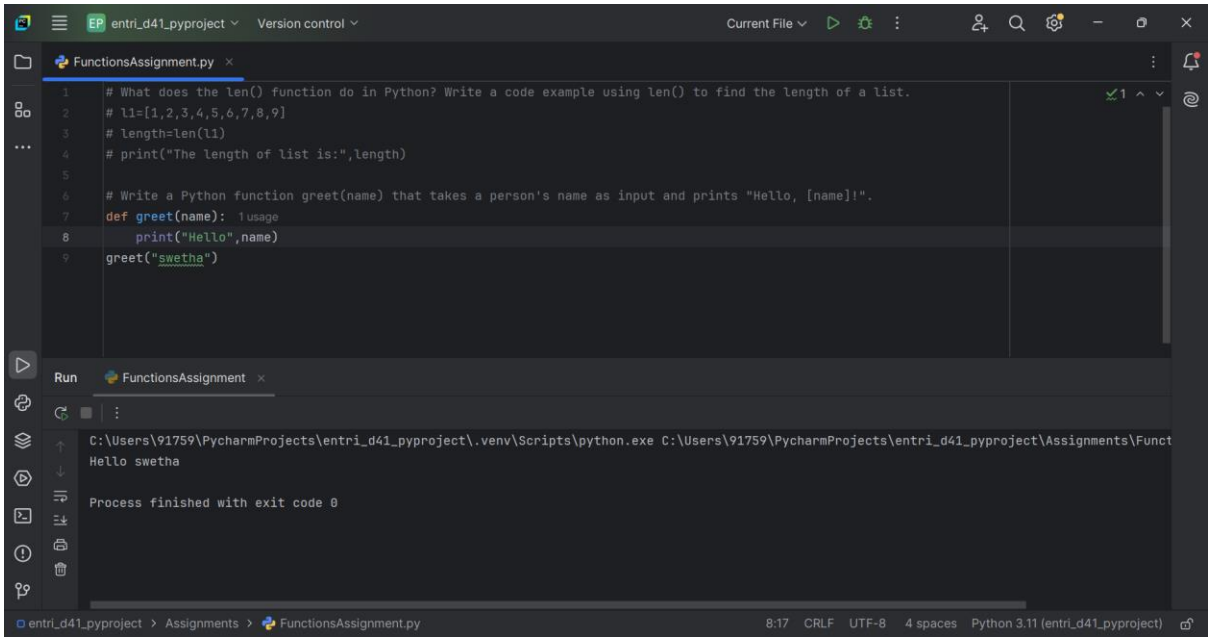
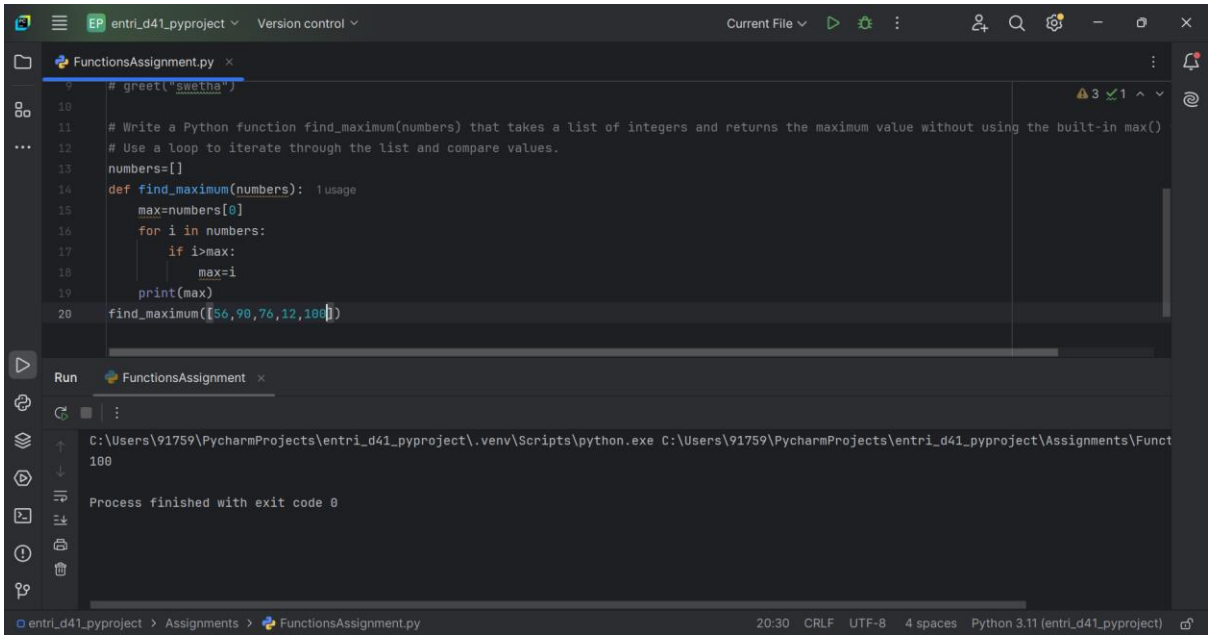
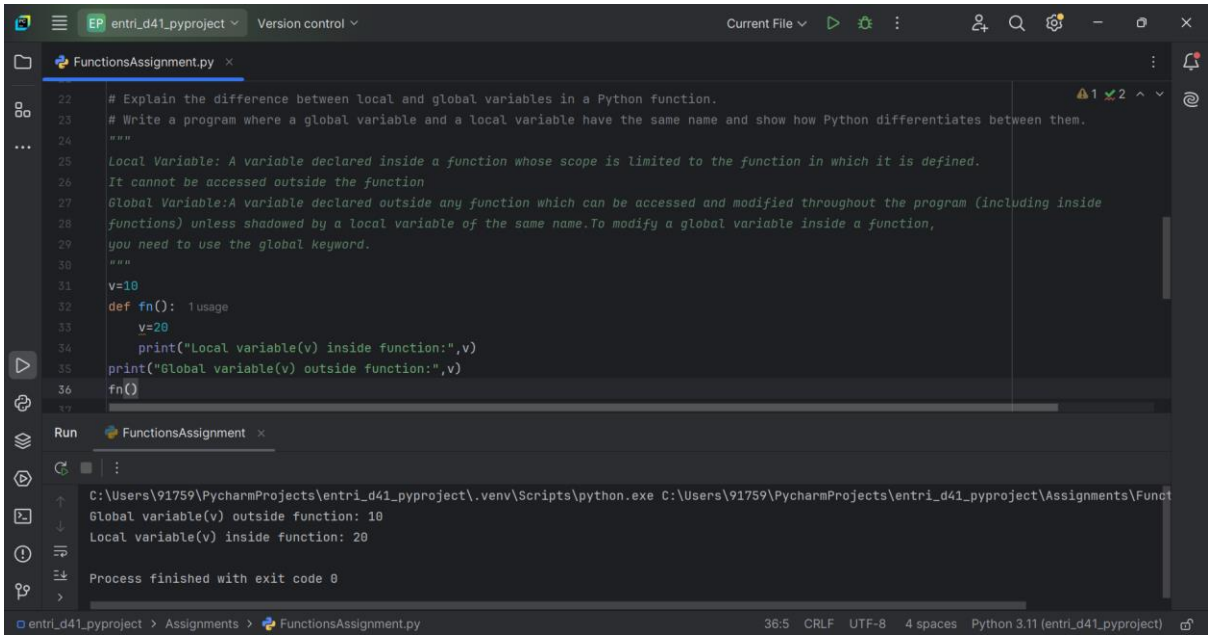
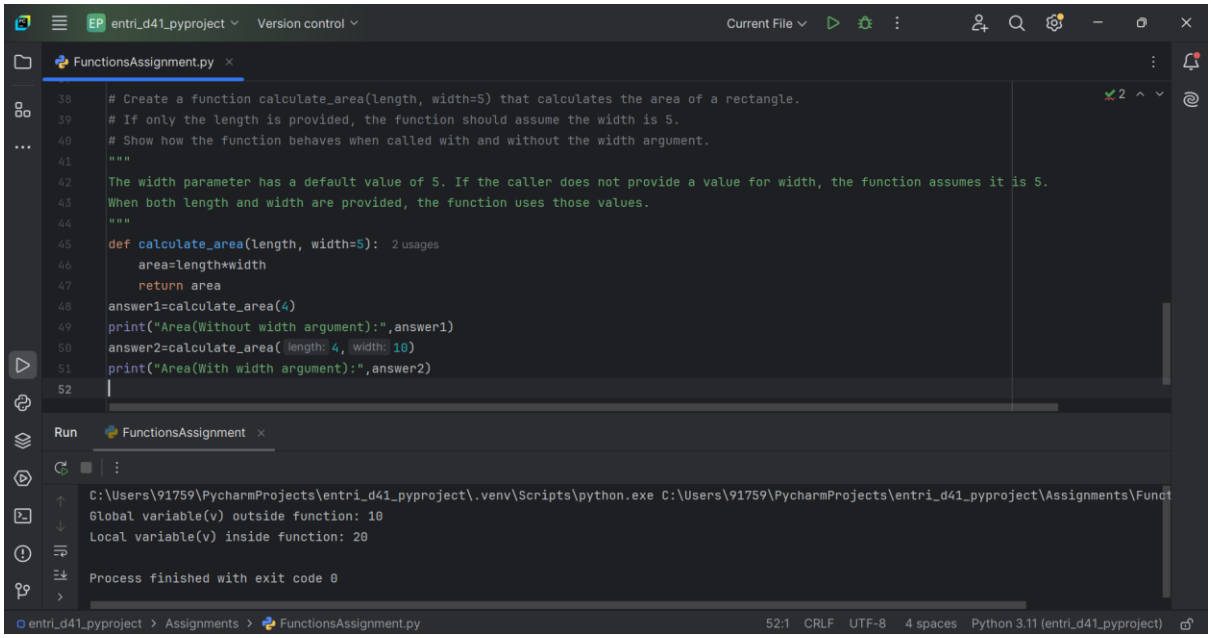

entri_d41_pyproject
Version control
Current File
FunctionsAssignment.py
# What does the len() function do in Python? Write a code example using len() to find the length of a list.
l1=[1,2,3,4,5,6,7,8,9]
length=len(l1)
print("The length of list is:",length)
Run
FunctionsAssignment
C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\Funct
The length of list is: 9
Process finished with exit code 0
entri_d41_pyproject > Assignments > FunctionsAssignment.py
4:30 CRLF UTF-8 4 spaces Python 3.11 (entri_d41_pyproject)


entri_d41_pyproject
Version control
Current File
FunctionsAssignment.py
What does the len() function do in Python? Write a code example using len() to find the length of a list.
l1=[1,2,3,4,5,6,7,8,9]
length=len(l1)
print("The length of list is:",length)
Write a Python function greet(name) that takes a person's name as input and prints "Hello, [name]!".
def greet(name): 1 usage
print("Hello",name)
greet("swetha")
Run
FunctionsAssignment
C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\Funct
Hello swetha
Process finished with exit code 0
entri_d41_pyproject > Assignments > FunctionsAssignment.py
8:17 CRLF UTF-8 4 spaces Python 3.11 (entri_d41_pyproject)


entri_d41_pyproject
Version control
Current File
FunctionsAssignment.py
# greet("swetha")
# Write a Python function find_maximum(numbers) that takes a list of integers and returns the maximum value without using the built-in max()
# Use a loop to iterate through the list and compare values.
numbers=[]
def find_maximum(numbers): 1 usage
max=numbers[0]
for i in numbers:
if i>max:
max=i
print(max)
find_maximum([56,90,76,12,100])
Run
FunctionsAssignment
C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\Funct
100
Process finished with exit code 0
entri_d41_pyproject › Assignments › FunctionsAssignment.py
20:30 CRLF UTF-8 4 spaces Python 3.11 (entri_d41_pyproject)


entri_d41_pyproject
Version control
Current File
FunctionsAssignment.py
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 Variable: A variable declared inside a function whose scope is limited to the function in which it is defined.
It cannot be accessed outside the function
Global Variable:A variable declared outside any function which can be accessed and modified throughout the program (including inside
functions) unless shadowed by a local variable of the same name.To modify a global variable inside a function,
you need to use the global keyword.
"""
v=10
def fn(): 1 usage
v=20
print("Local variable(v) inside function:",v)
print("Global variable(v) outside function:",v)
fn()
Run
FunctionsAssignment
C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\Funct
Global variable(v) outside function: 10
Local variable(v) inside function: 20
Process finished with exit code 0
entri_d41_pyproject › Assignments › FunctionsAssignment.py
36:5 CRLF UTF-8 4 spaces Python 3.11 (entri_d41_pyproject)


entri_d41_pyproject
Version control
Current File
FunctionsAssignment.py
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.
"""
The width parameter has a default value of 5. If the caller does not provide a value for width, the function assumes it is 5.
When both length and width are provided, the function uses those values.
"""
def calculate_area(length, width=5): 2 usages
area=length*width
return area
answer1=calculate_area(4)
print("Area(Without width argument):",answer1)
answer2=calculate_area(length: 4, width: 10)
print("Area(With width argument):",answer2)
Run
FunctionsAssignment
C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\Funct
Global variable(v) outside function: 10
Local variable(v) inside function: 20
Process finished with exit code 0
entri_d41_pyproject
Assignments
FunctionsAssignment.py
52:1
CRLF
UTF-8
4 spaces
Python 3.11 (entri_d41_pyproject)