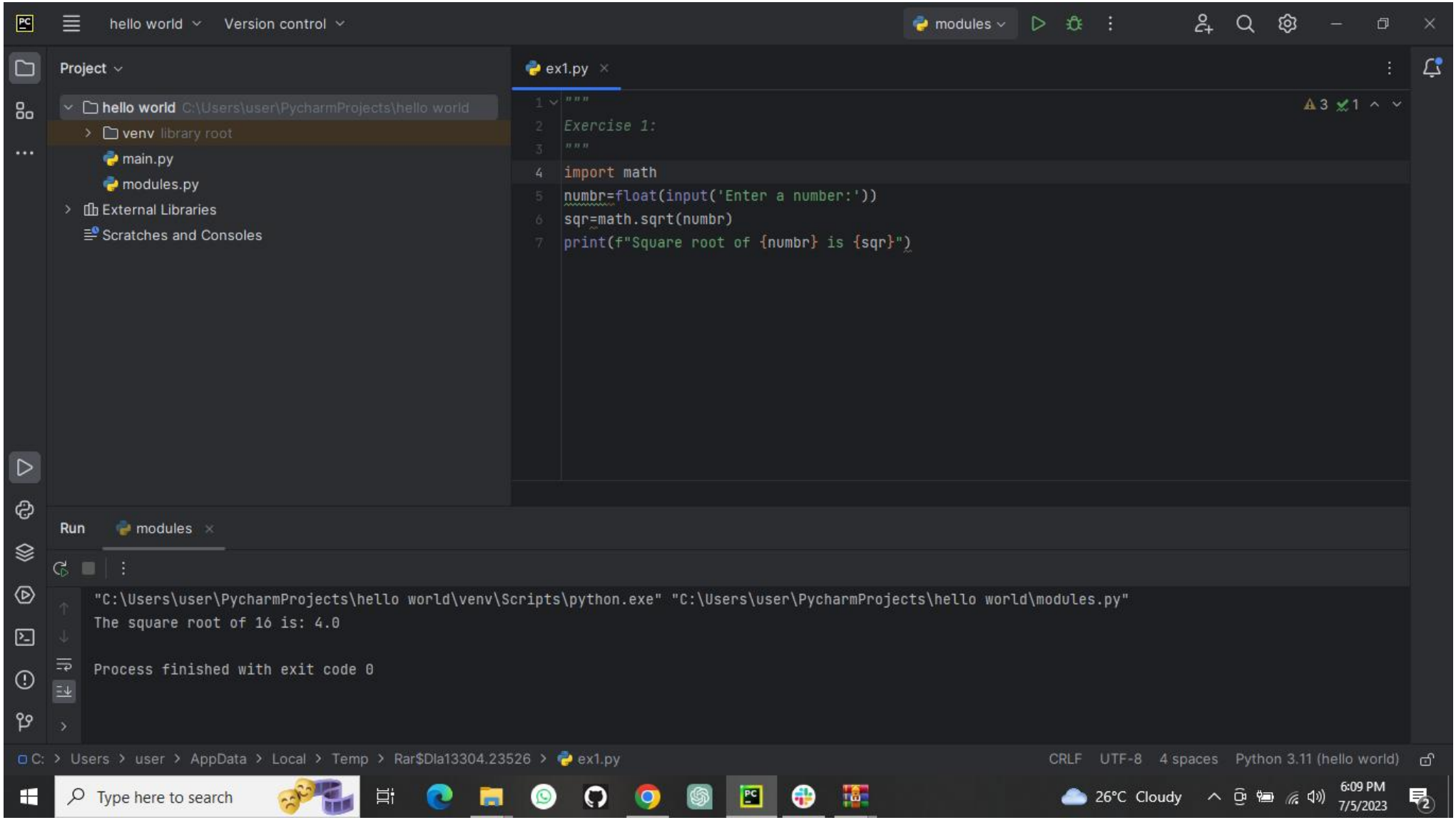
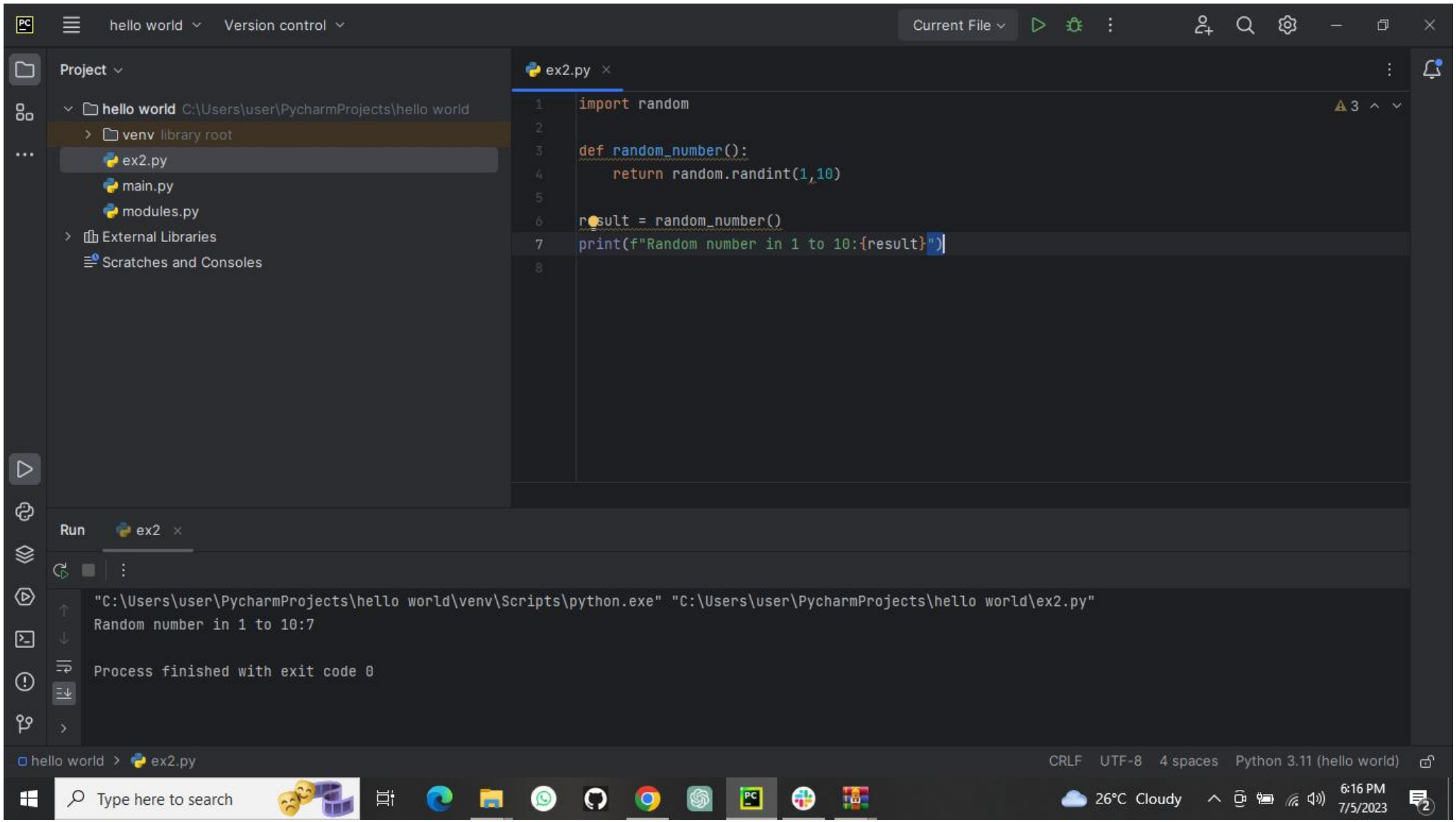
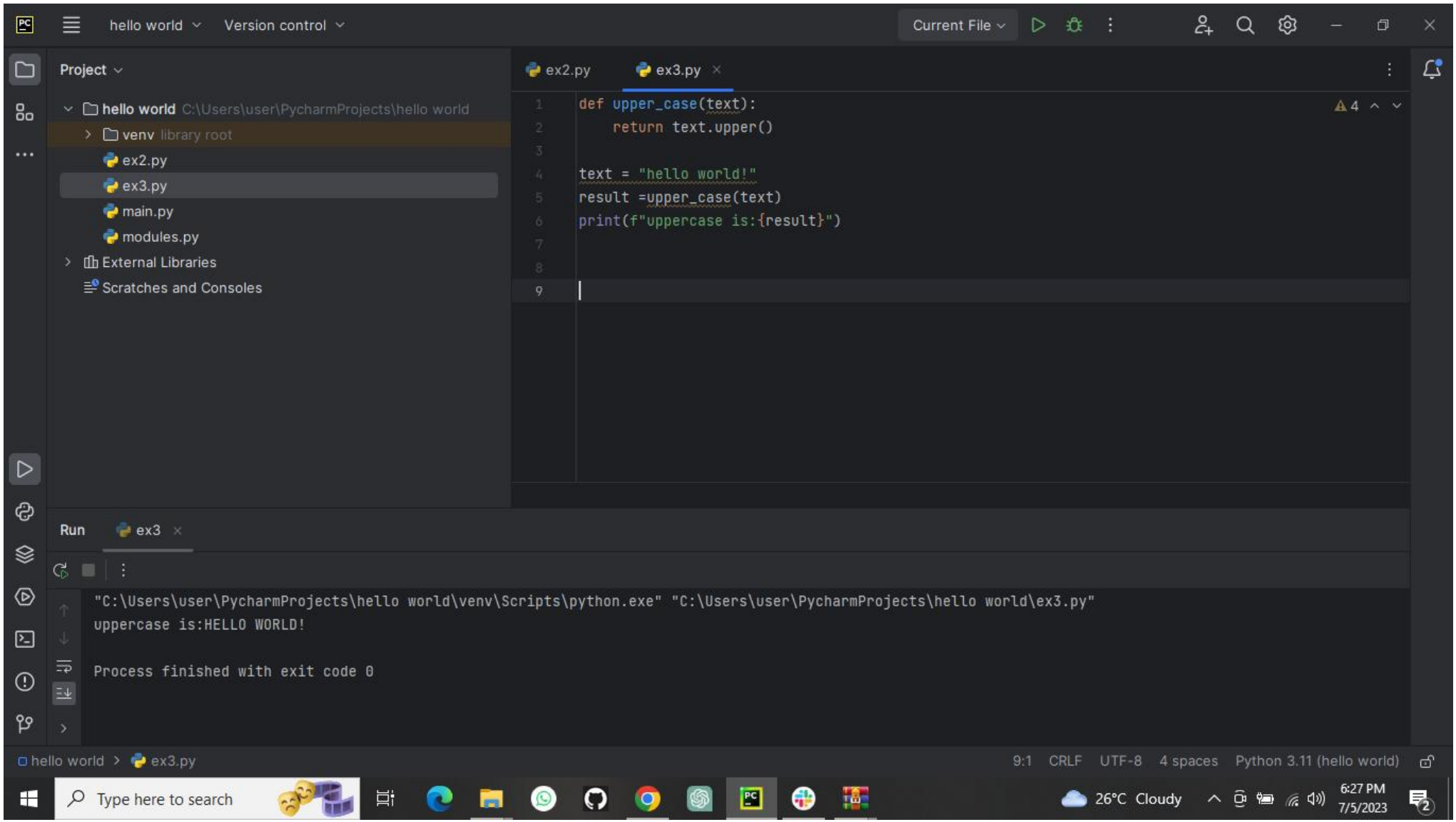
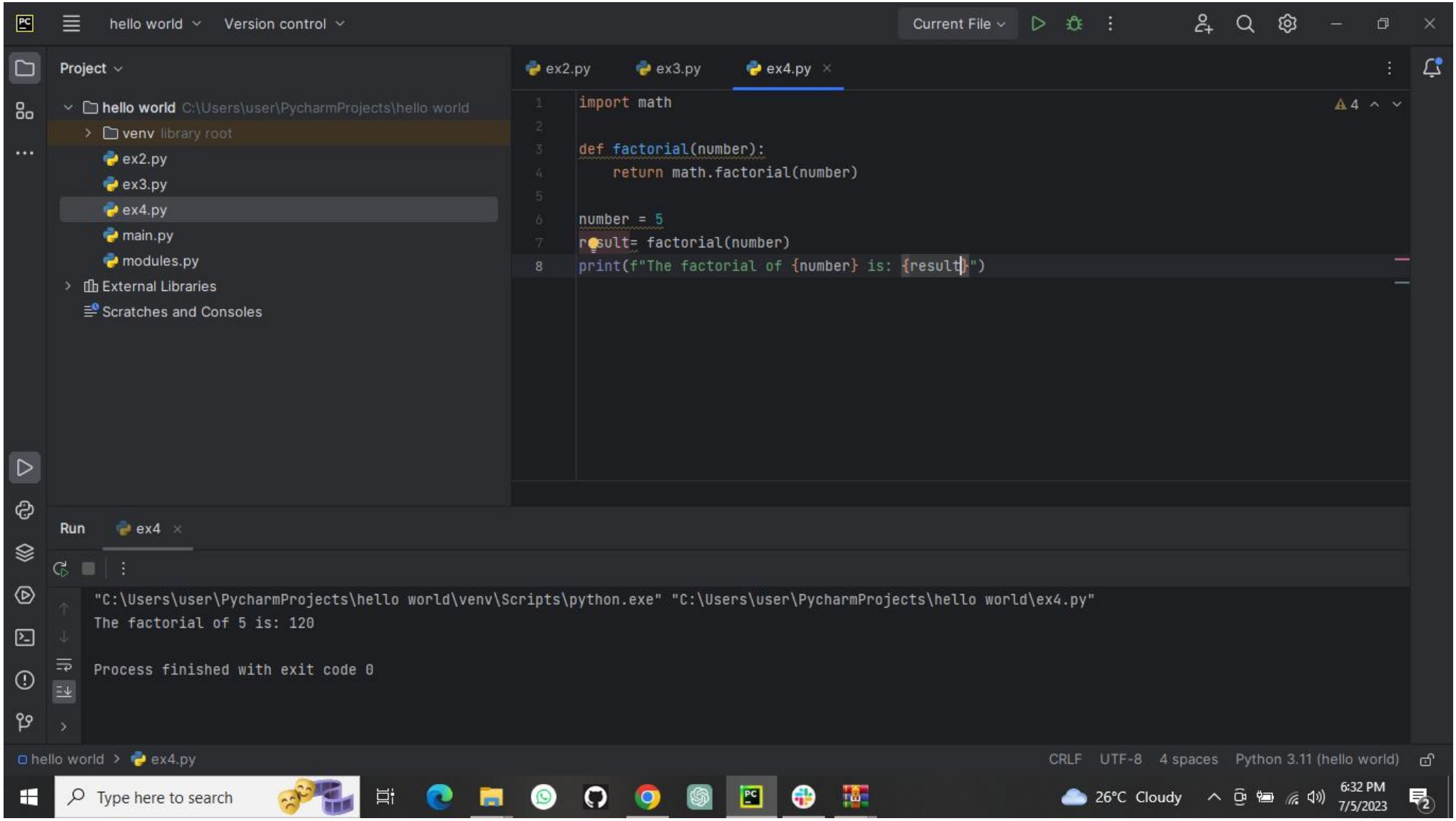
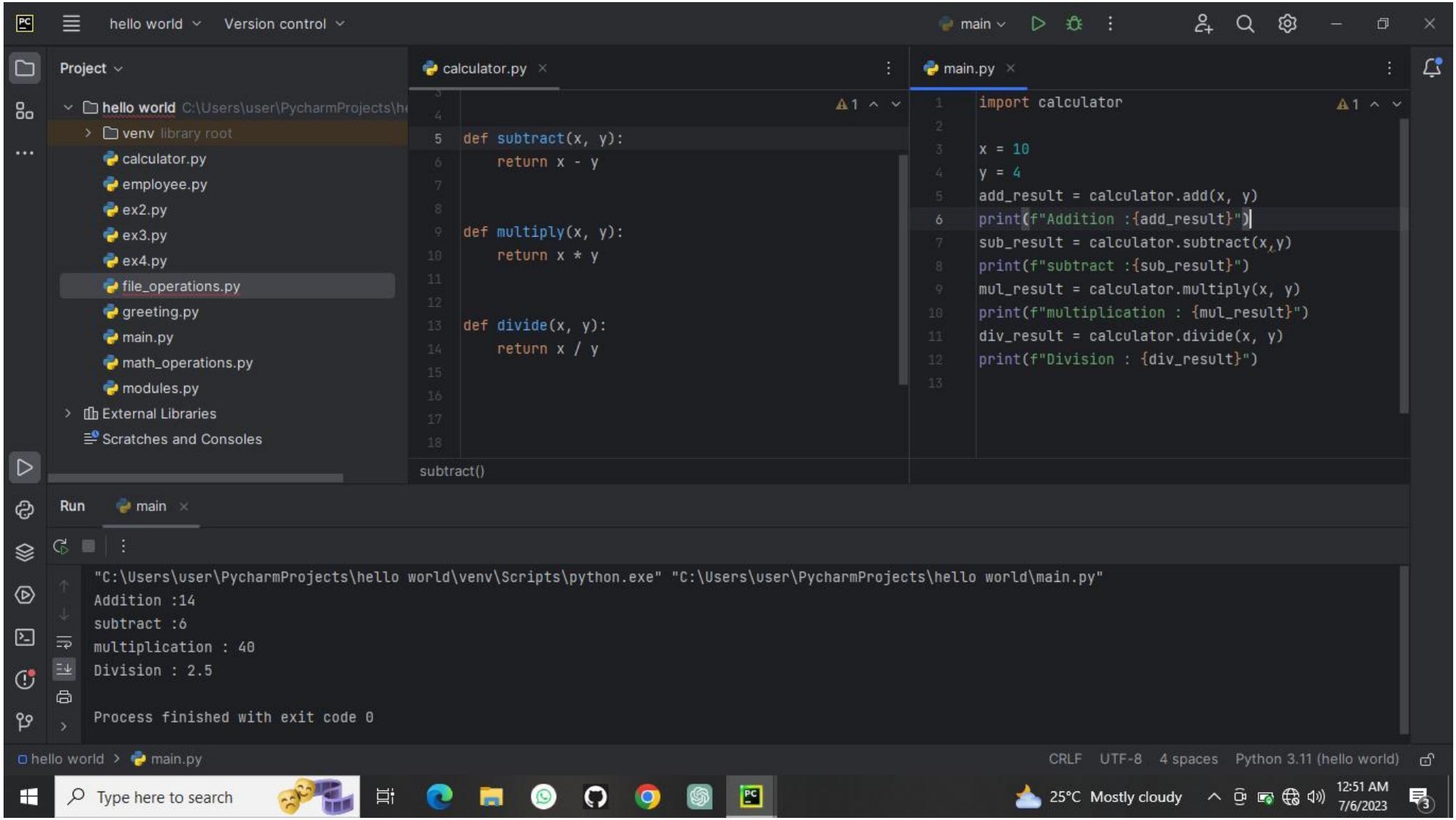
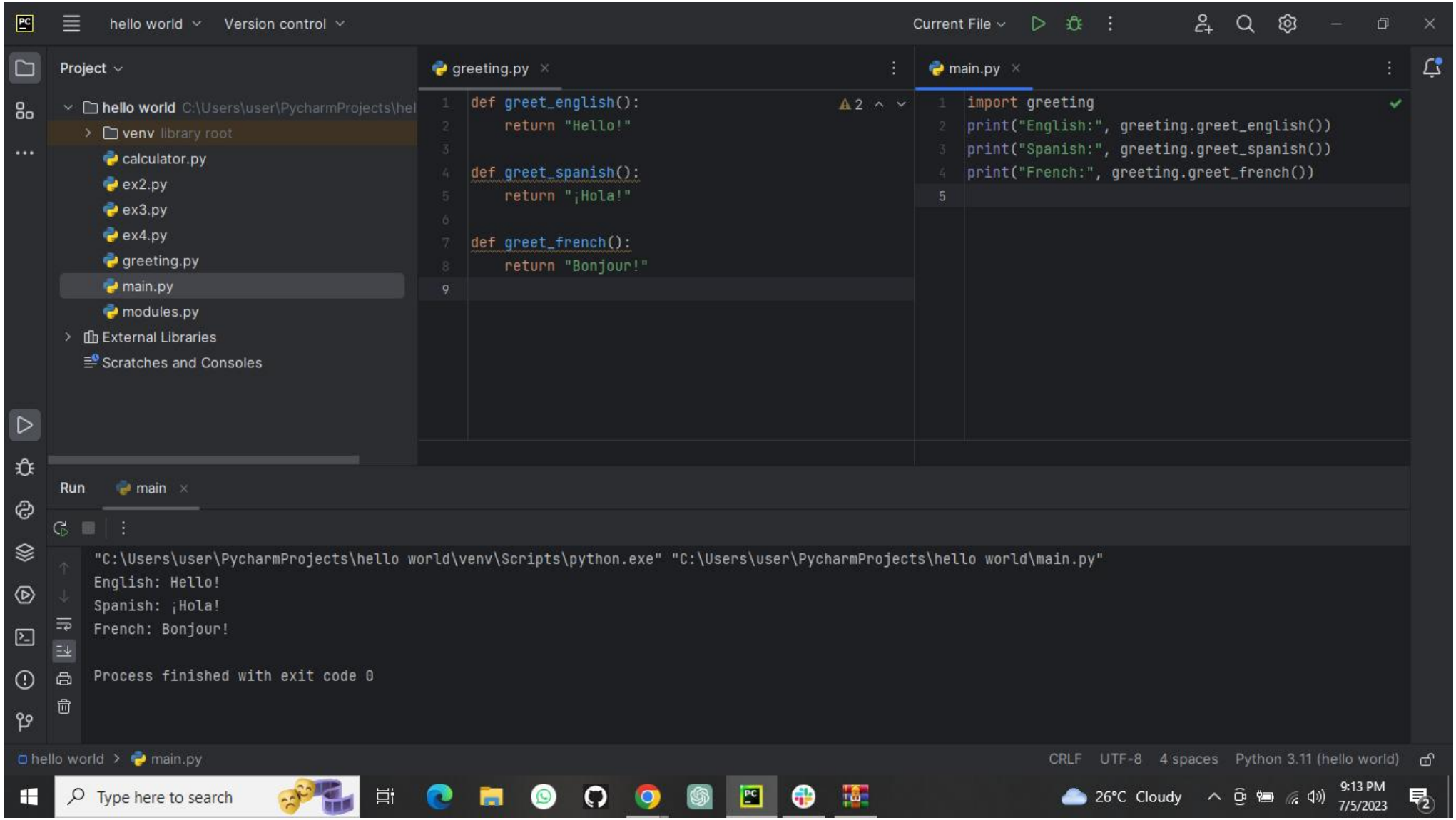

hello world
Version control
modules
Project
hello world C:\Users\user\PycharmProjects\hello world
venv library root
main.py
modules.py
External Libraries
Scratches and Consoles
ex1.py
"""
Exercise 1:
"""
import math
numbr=float(input('Enter a number:'))
sqr=math.sqrt(numbr)
print(f"Square root of {numbr} is {sqr}")
Run
modules
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\modules.py"
The square root of 16 is: 4.0
Process finished with exit code 0
C: > Users > user > AppData > Local > Temp > Rar$DIa13304.23526 > ex1.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
26°C Cloudy
6:09 PM
7/5/2023

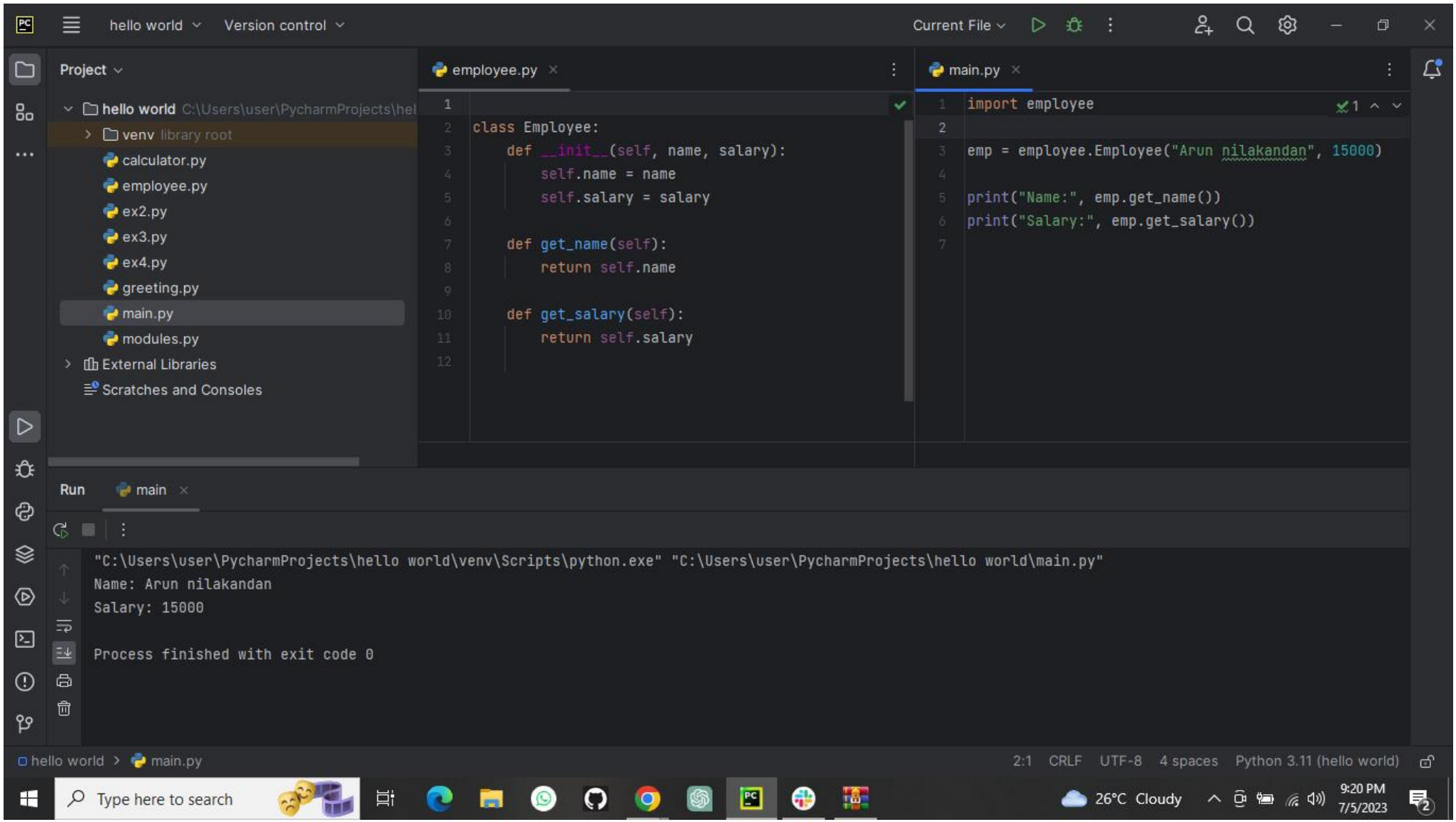

hello world
Version control
Current File
Project
hello world C:\Users\user\PycharmProjects\hello world
venv library root
ex2.py
main.py
modules.py
External Libraries
Scratches and Consoles
ex2.py
import random
def random_number():
return random.randint(1,10)
result = random_number()
print(f"Random number in 1 to 10:{result}")
Run
ex2
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\ex2.py"
Random number in 1 to 10:7
Process finished with exit code 0
hello world
ex2.py
CRLF
UTF-8
4 spaces
Python 3.11 (hello world)
Type here to search
26°C Cloudy
6:16 PM
7/5/2023

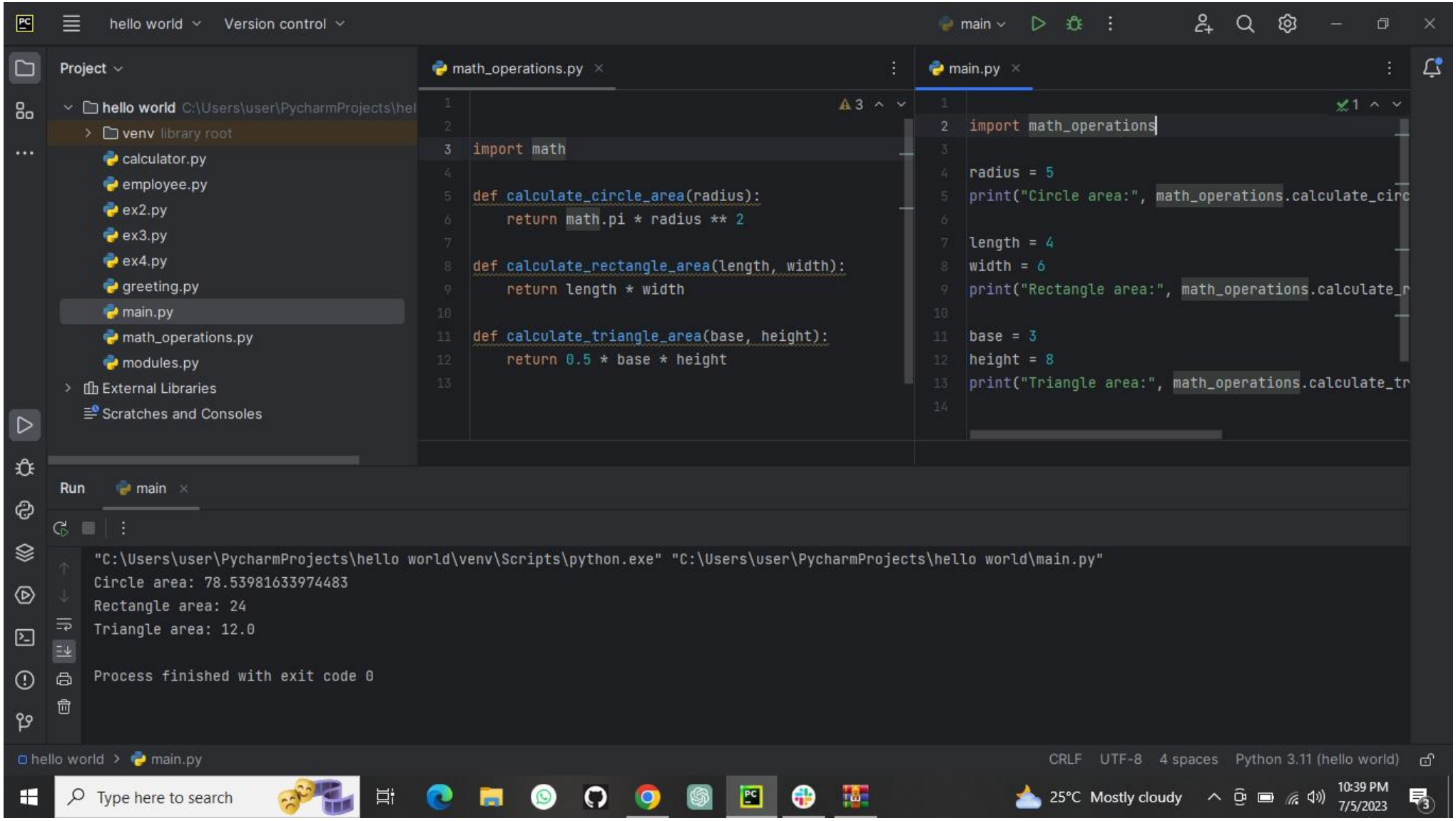

hello world
Version control
Current File
Project
hello world C:\Users\user\PycharmProjects\hello world
venv library root
ex2.py
ex3.py
main.py
modules.py
External Libraries
Scratches and Consoles
ex2.py
ex3.py
def upper_case(text):
return text.upper()
text = "hello world!"
result =upper_case(text)
print(f"uppercase is:{result}")
Run
ex3
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\ex3.py"
uppercase is:HELLO WORLD!
Process finished with exit code 0
hello world > ex3.py
9:1 CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
26°C Cloudy
6:27 PM
7/5/2023

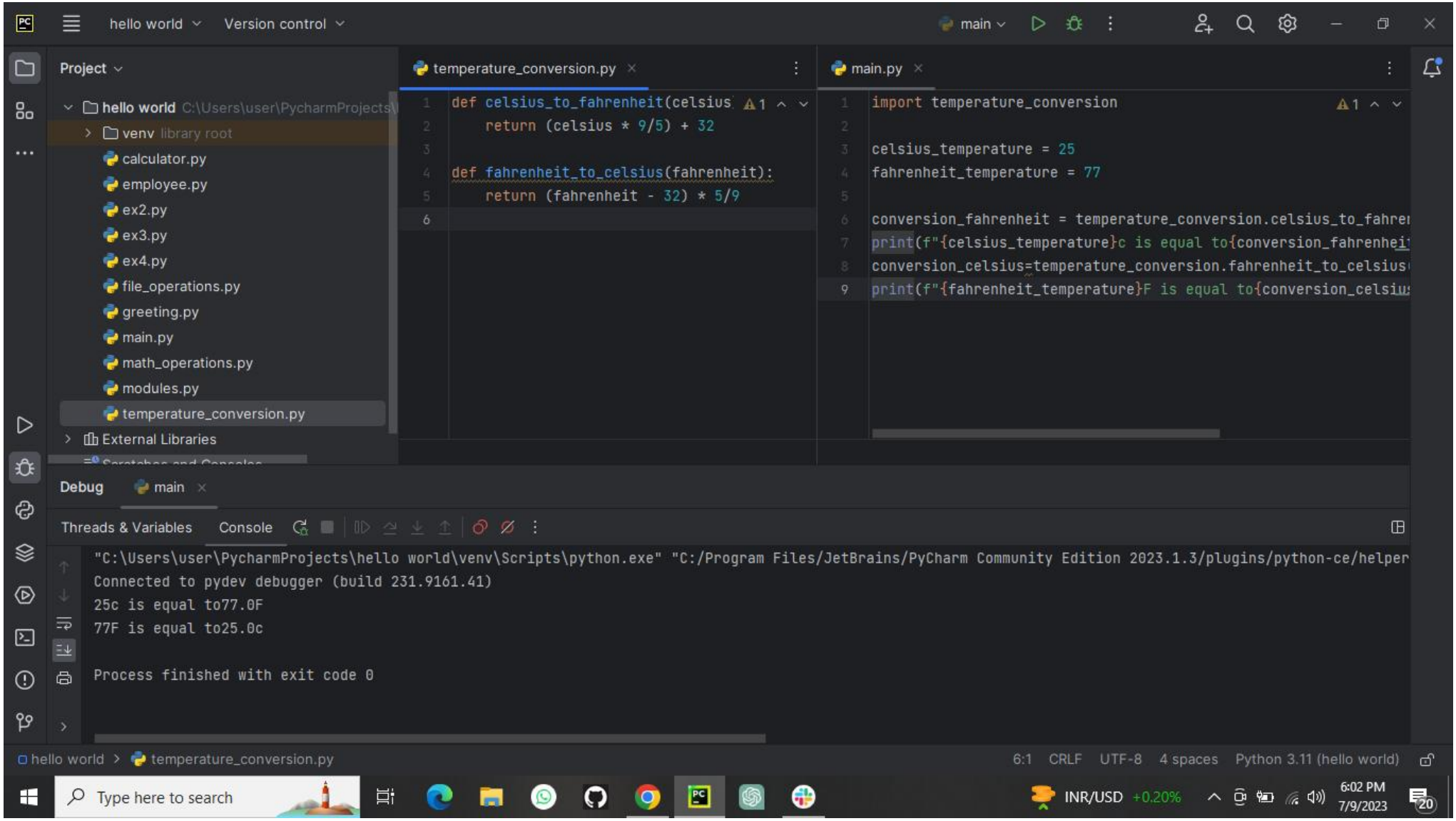

hello world
Version control
Current File
Project
hello world C:\Users\user\PycharmProjects\hello world
venv library root
ex2.py
ex3.py
ex4.py
main.py
modules.py
External Libraries
Scratches and Consoles
ex2.py
ex3.py
ex4.py
import math
def factorial(number):
return math.factorial(number)
number = 5
result= factorial(number)
print(f"The factorial of {number} is: {result}")
Run
ex4
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\ex4.py"
The factorial of 5 is: 120
Process finished with exit code 0
hello world > ex4.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
26°C Cloudy
6:32 PM
7/5/2023

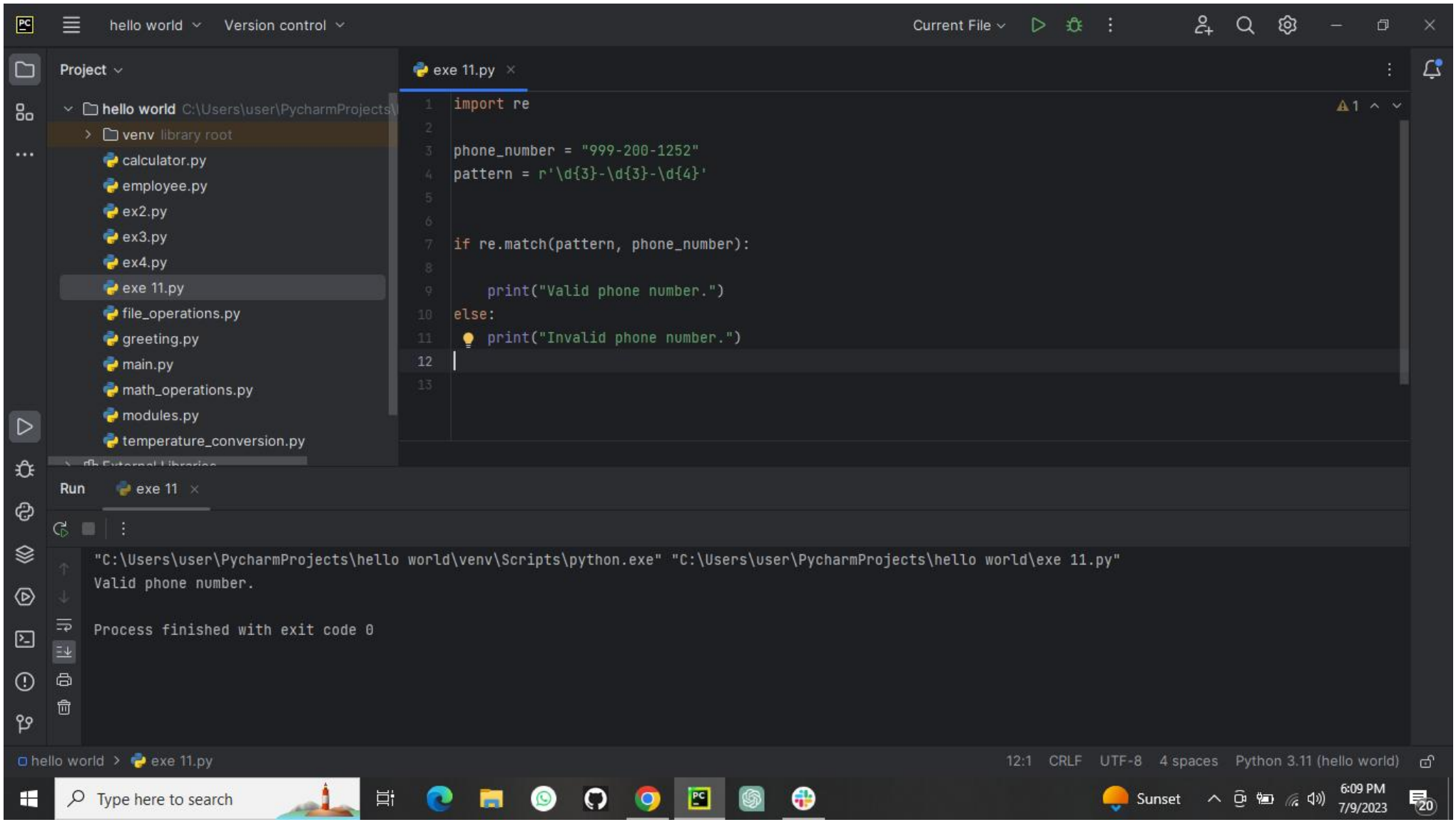

hello world
Version control
main
Project
hello world C:\Users\user\PycharmProjects\h
venv library root
calculator.py
employee.py
ex2.py
ex3.py
ex4.py
file_operations.py
greeting.py
main.py
math_operations.py
modules.py
External Libraries
Scratches and Consoles
calculator.py
def subtract(x, y):
return x - y
def multiply(x, y):
return x * y
def divide(x, y):
return x / y
subtract()
main.py
import calculator
x = 10
y = 4
add_result = calculator.add(x, y)
print(f"Addition :{add_result}")
sub_result = calculator.subtract(x,y)
print(f"subtract :{sub_result}")
mul_result = calculator.multiply(x, y)
print(f"multiplication : {mul_result}")
div_result = calculator.divide(x, y)
print(f"Division : {div_result}")
Run
main
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\main.py"
Addition :14
subtract :6
multiplication : 40
Division : 2.5
Process finished with exit code 0
hello world > main.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
25°C Mostly cloudy
12:51 AM
7/6/2023

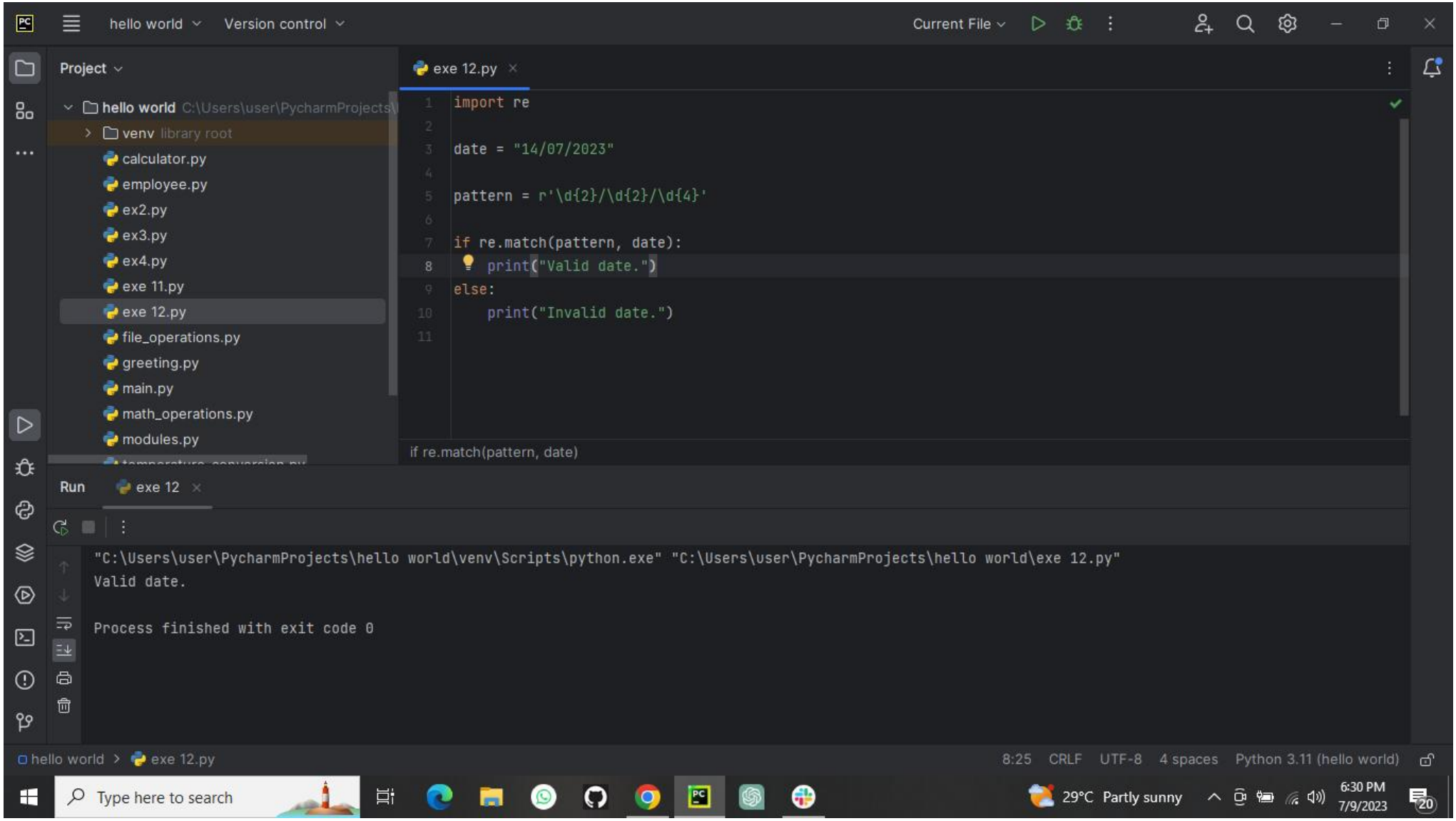

hello world
Version control
Current File
Project
hello world C:\Users\user\PycharmProjects\hel
venv library root
calculator.py
ex2.py
ex3.py
ex4.py
greeting.py
main.py
modules.py
External Libraries
Scratches and Consoles
greeting.py
def greet_english():
return "Hello!"
def greet_spanish():
return "¡Hola!"
def greet_french():
return "Bonjour!"
main.py
import greeting
print("English:", greeting.greet_english())
print("Spanish:", greeting.greet_spanish())
print("French:", greeting.greet_french())
Run
main
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\main.py"
English: Hello!
Spanish: ¡Hola!
French: Bonjour!
Process finished with exit code 0
hello world > main.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
26°C Cloudy
9:13 PM
7/5/2023

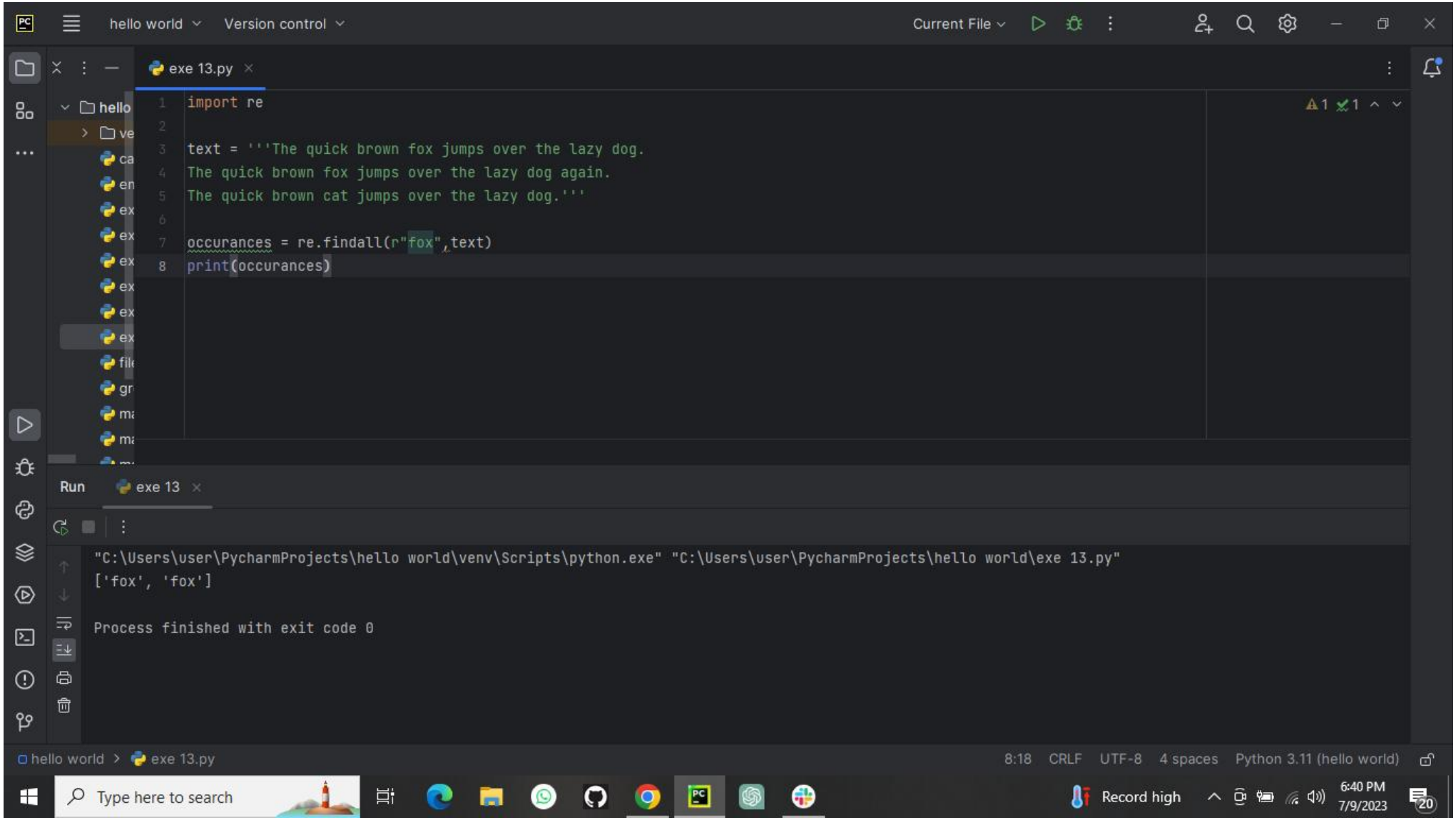

hello world
Version control
Current File
Project
hello world C:\Users\user\PycharmProjects\hel
venv library root
calculator.py
employee.py
ex2.py
ex3.py
ex4.py
greeting.py
main.py
modules.py
External Libraries
Scratches and Consoles
employee.py
class Employee:
def __init__(self, name, salary):
self.name = name
self.salary = salary
def get_name(self):
return self.name
def get_salary(self):
return self.salary
main.py
import employee
emp = employee.Employee("Arun nilakandan", 15000)
print("Name:", emp.get_name())
print("Salary:", emp.get_salary())
Run
main
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\main.py"
Name: Arun nilakandan
Salary: 15000
Process finished with exit code 0
hello world > main.py
2:1 CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
26°C Cloudy
9:20 PM
7/5/2023

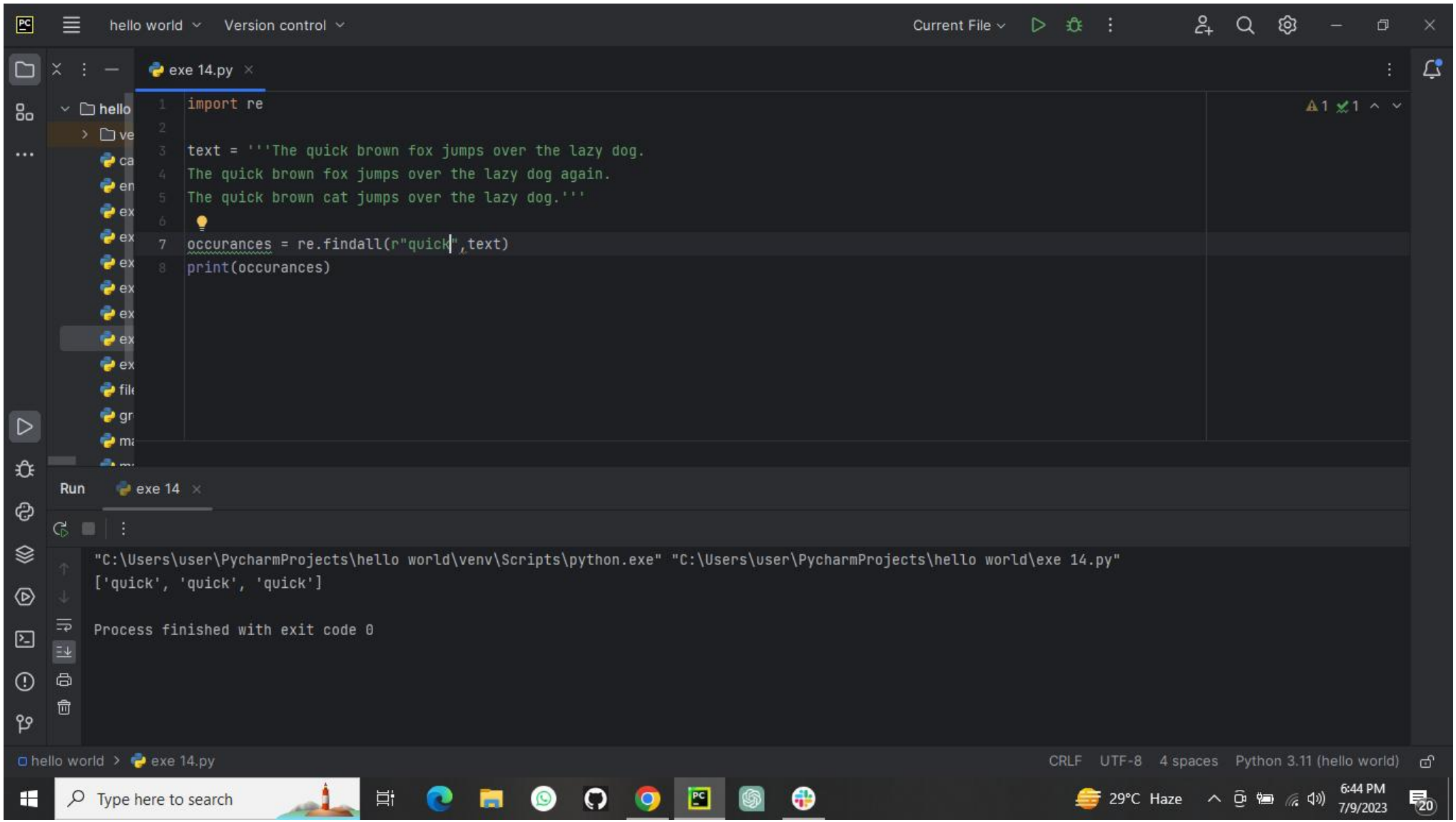

hello world
Version control
main
Project
hello world C:\Users\user\PycharmProjects\hel
venv library root
calculator.py
employee.py
ex2.py
ex3.py
ex4.py
greeting.py
main.py
math_operations.py
modules.py
External Libraries
Scratches and Consoles
math_operations.py
import math
def calculate_circle_area(radius):
return math.pi * radius ** 2
def calculate_rectangle_area(length, width):
return length * width
def calculate_triangle_area(base, height):
return 0.5 * base * height
main.py
import math_operations
radius = 5
print("Circle area:", math_operations.calculate_circ
length = 4
width = 6
print("Rectangle area:", math_operations.calculate_r
base = 3
height = 8
print("Triangle area:", math_operations.calculate_tr
Run
main
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\main.py"
Circle area: 78.53981633974483
Rectangle area: 24
Triangle area: 12.0
Process finished with exit code 0
hello world > main.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
25°C Mostly cloudy
10:39 PM
7/5/2023

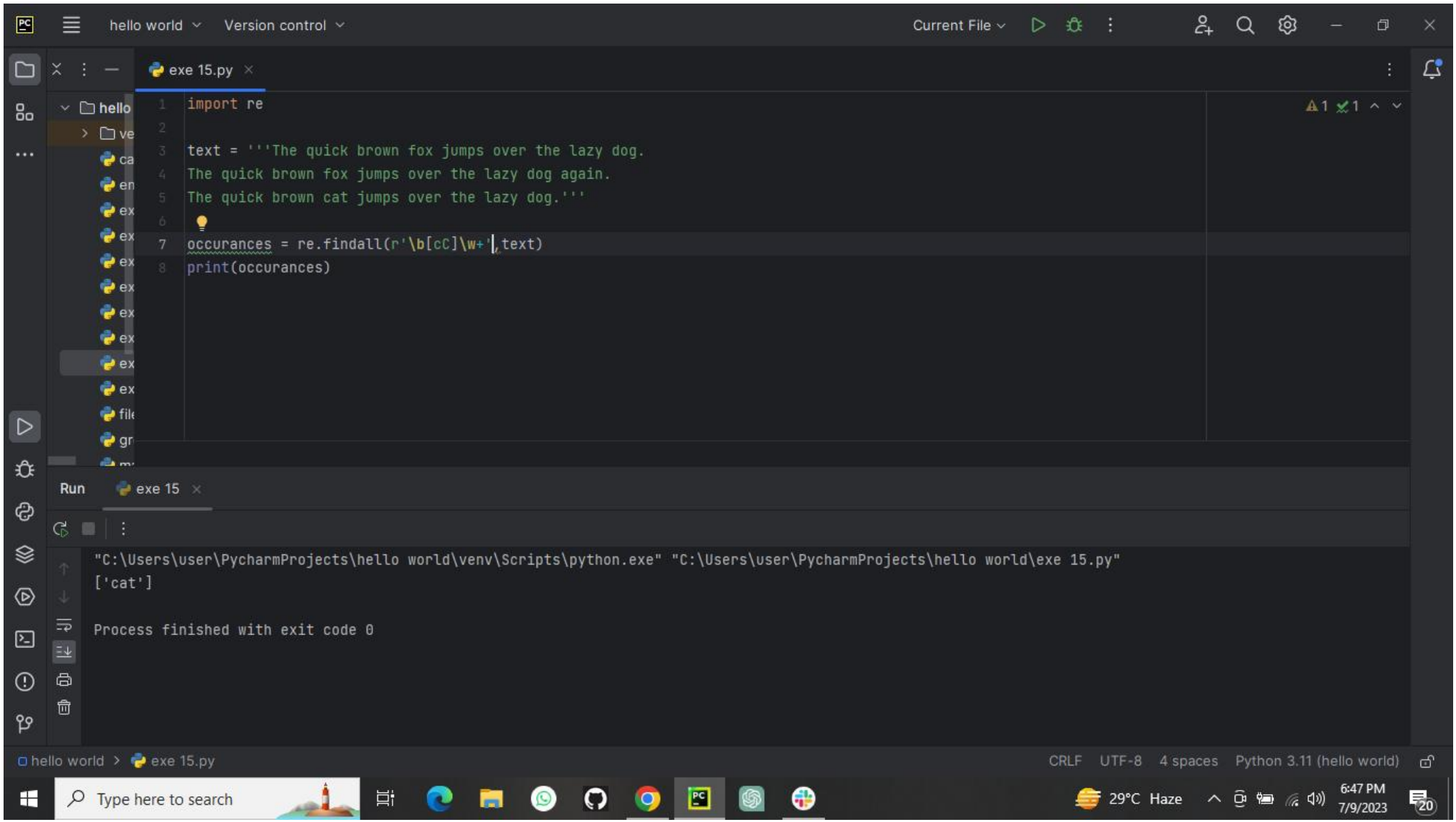

hello world
Version control
main
Project
hello world C:\Users\user\PycharmProjects\
venv library root
calculator.py
employee.py
ex2.py
ex3.py
ex4.py
file_operations.py
greeting.py
main.py
math_operations.py
modules.py
temperature_conversion.py
External Libraries
temperature_conversion.py
def celsius_to_fahrenheit(celsius
return (celsius * 9/5) + 32
def fahrenheit_to_celsius(fahrenheit):
return (fahrenheit - 32) * 5/9
main.py
import temperature_conversion
celsius_temperature = 25
fahrenheit_temperature = 77
conversion_fahrenheit = temperature_conversion.celsius_to_fahre
print(f"{celsius_temperature}c is equal to{conversion_fahrenhei
conversion_celsius=temperature_conversion.fahrenheit_to_celsius
print(f"{fahrenheit_temperature}F is equal to{conversion_celsiu
Debug
main
Threads & Variables
Console
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:/Program Files/JetBrains/PyCharm Community Edition 2023.1.3/plugins/python-ce/helper
Connected to pydev debugger (build 231.9161.41)
25c is equal to77.0F
77F is equal to25.0c
Process finished with exit code 0
hello world > temperature_conversion.py
6:1 CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
INR/USD +0.20%
6:02 PM
7/9/2023

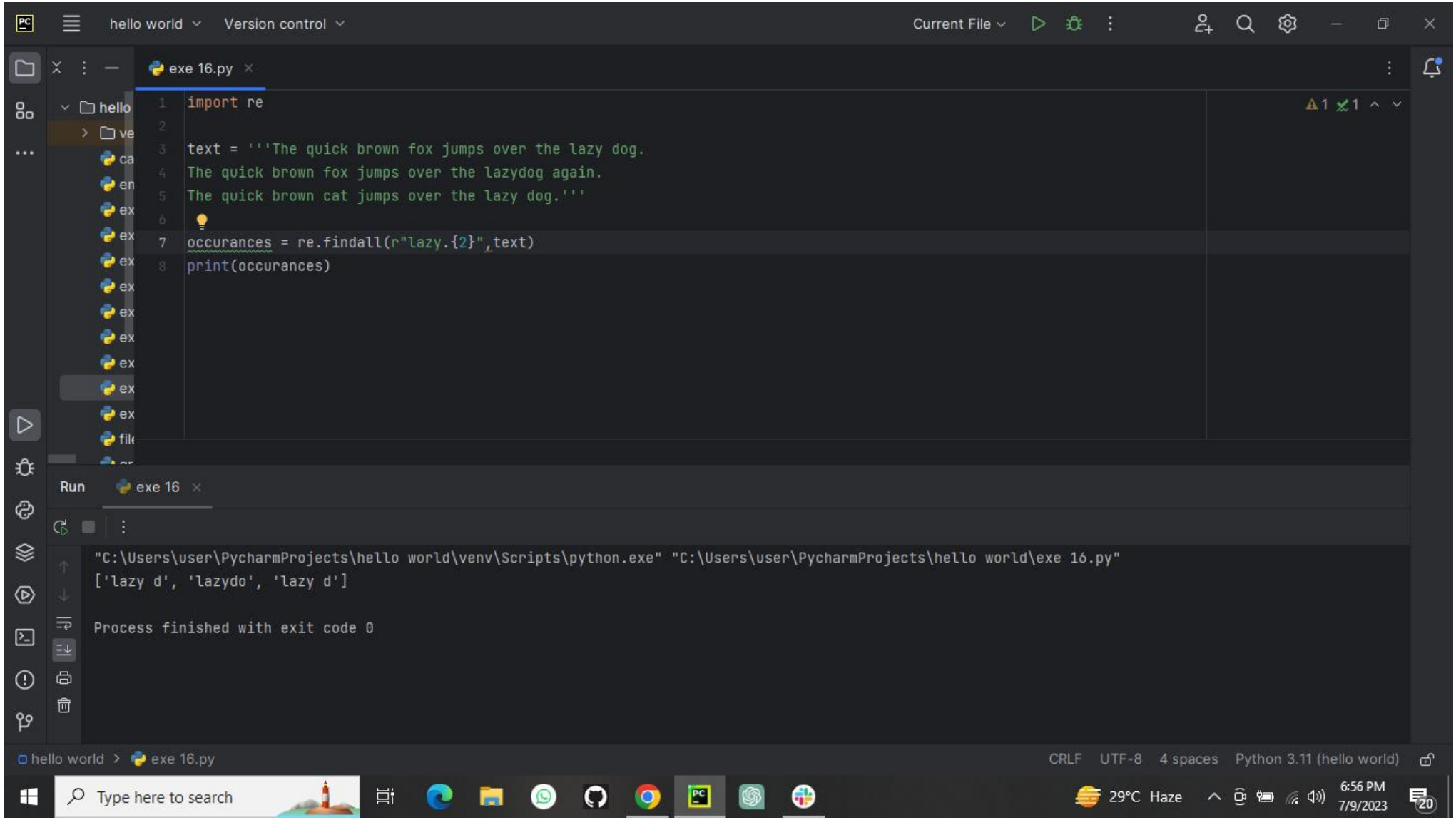

hello world
Version control
Current File
Project
hello world C:\Users\user\PycharmProjects\
venv library root
calculator.py
employee.py
ex2.py
ex3.py
ex4.py
exe 11.py
file_operations.py
greeting.py
main.py
math_operations.py
modules.py
temperature_conversion.py
exe 11.py
import re
phone_number = "999-200-1252"
pattern = r'\d{3}-\d{3}-\d{4}'
if re.match(pattern, phone_number):
print("Valid phone number.")
else:
print("Invalid phone number.")
Run
exe 11
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\exe 11.py"
Valid phone number.
Process finished with exit code 0
hello world > exe 11.py
12:1 CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
Sunset
6:09 PM
7/9/2023

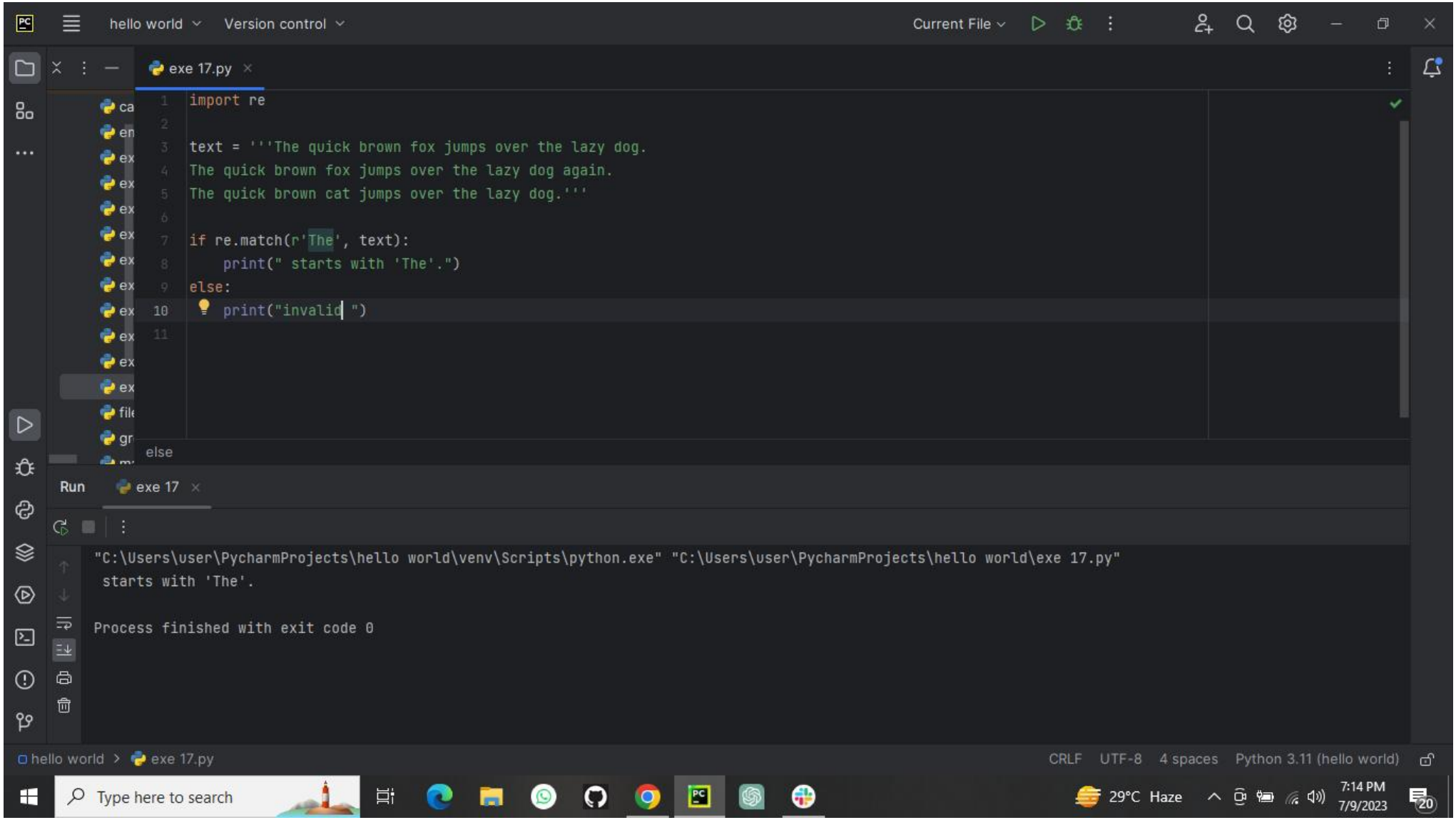

hello world
Version control
Current File
Project
hello world C:\Users\user\PycharmProjects\
venv library root
calculator.py
employee.py
ex2.py
ex3.py
ex4.py
exe 11.py
exe 12.py
file_operations.py
greeting.py
main.py
math_operations.py
modules.py
exe 12.py
import re
date = "14/07/2023"
pattern = r'\d{2}/\d{2}/\d{4}'
if re.match(pattern, date):
print("Valid date.")
else:
print("Invalid date.")
if re.match(pattern, date)
Run
exe 12
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\exe 12.py"
Valid date.
Process finished with exit code 0
hello world > exe 12.py
8:25 CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
29°C Partly sunny
6:30 PM
7/9/2023

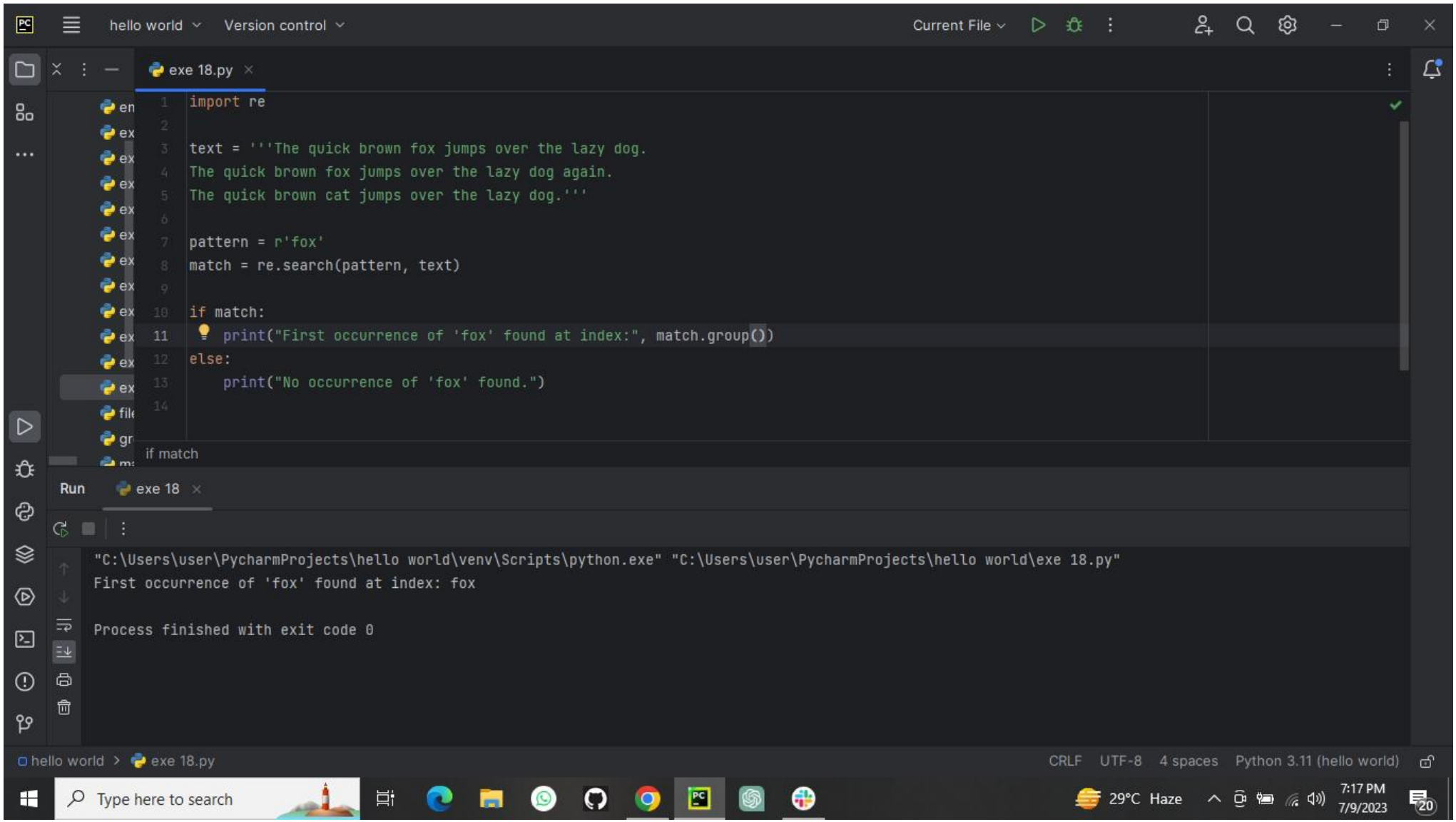

hello world
Version control
Current File
exe 13.py
import re
text = '''The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog again.
The quick brown cat jumps over the lazy dog.'''
occurances = re.findall(r"fox",text)
print(occurances)
Run
exe 13
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\exe 13.py"
['fox', 'fox']
Process finished with exit code 0
hello world > exe 13.py
8:18 CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
Record high
6:40 PM
7/9/2023

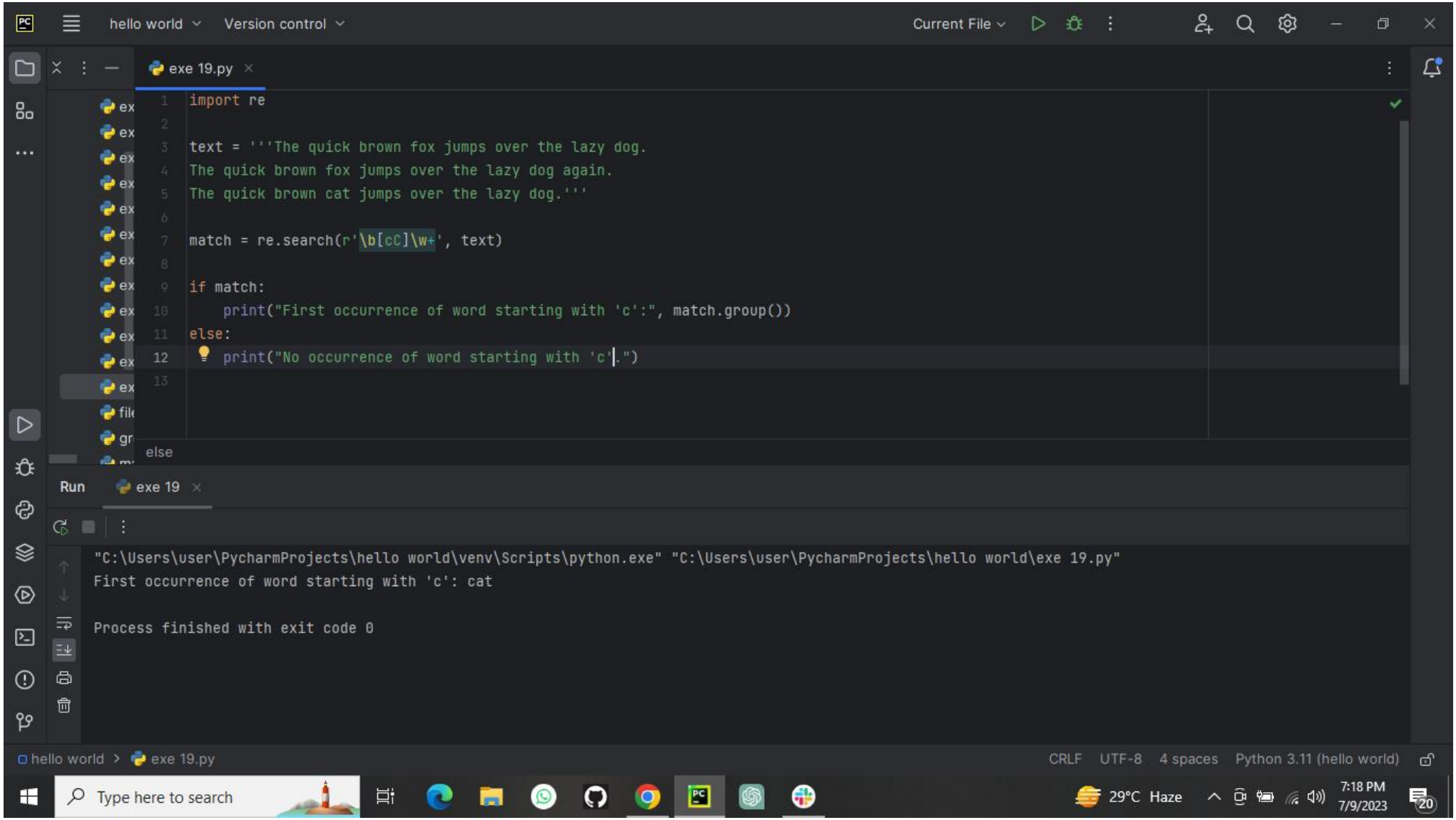

hello world
Version control
Current File
exe 14.py
import re
text = '''The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog again.
The quick brown cat jumps over the lazy dog.'''
occurances = re.findall(r"quick",text)
print(occurances)
Run
exe 14
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\exe 14.py"
['quick', 'quick', 'quick']
Process finished with exit code 0
hello world > exe 14.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
29°C Haze
6:44 PM
7/9/2023


hello world
Version control
Current File
exe 15.py
import re
text = '''The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog again.
The quick brown cat jumps over the lazy dog.'''
occurances = re.findall(r'\b[cC]\w+',text)
print(occurances)
Run
exe 15
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\exe 15.py"
['cat']
Process finished with exit code 0
hello world > exe 15.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
29°C Haze
6:47 PM
7/9/2023


hello world
Version control
Current File
exe 16.py
import re
text = '''The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazydog again.
The quick brown cat jumps over the lazy dog.'''
occurances = re.findall(r"lazy.{2}",text)
print(occurances)
Run
exe 16
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\exe 16.py"
['lazy d', 'lazydo', 'lazy d']
Process finished with exit code 0
hello world > exe 16.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
29°C Haze
6:56 PM
7/9/2023


hello world
Version control
Current File
exe 17.py
import re
text = '''The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog again.
The quick brown cat jumps over the lazy dog.'''
if re.match(r'The', text):
print(" starts with 'The'.")
else:
print("invalid ")
else
Run
exe 17
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\exe 17.py"
starts with 'The'.
Process finished with exit code 0
hello world > exe 17.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
29°C Haze
7:14 PM
7/9/2023


hello world
Version control
Current File
exe 18.py
import re
text = '''The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog again.
The quick brown cat jumps over the lazy dog.'''
pattern = r'fox'
match = re.search(pattern, text)
if match:
print("First occurrence of 'fox' found at index:", match.group())
else:
print("No occurrence of 'fox' found.")
if match
Run
exe 18
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\exe 18.py"
First occurrence of 'fox' found at index: fox
Process finished with exit code 0
hello world > exe 18.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
29°C Haze
7:17 PM
7/9/2023


hello world
Version control
Current File
exe 19.py
import re
text = '''The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog again.
The quick brown cat jumps over the lazy dog.'''
match = re.search(r'\b[cC]\w+', text)
if match:
print("First occurrence of word starting with 'c':", match.group())
else:
print("No occurrence of word starting with 'c'.")
else
Run
exe 19
"C:\Users\user\PycharmProjects\hello world\venv\Scripts\python.exe" "C:\Users\user\PycharmProjects\hello world\exe 19.py"
First occurrence of word starting with 'c': cat
Process finished with exit code 0
hello world > exe 19.py
CRLF UTF-8 4 spaces Python 3.11 (hello world)
Type here to search
29°C Haze
7:18 PM
7/9/2023