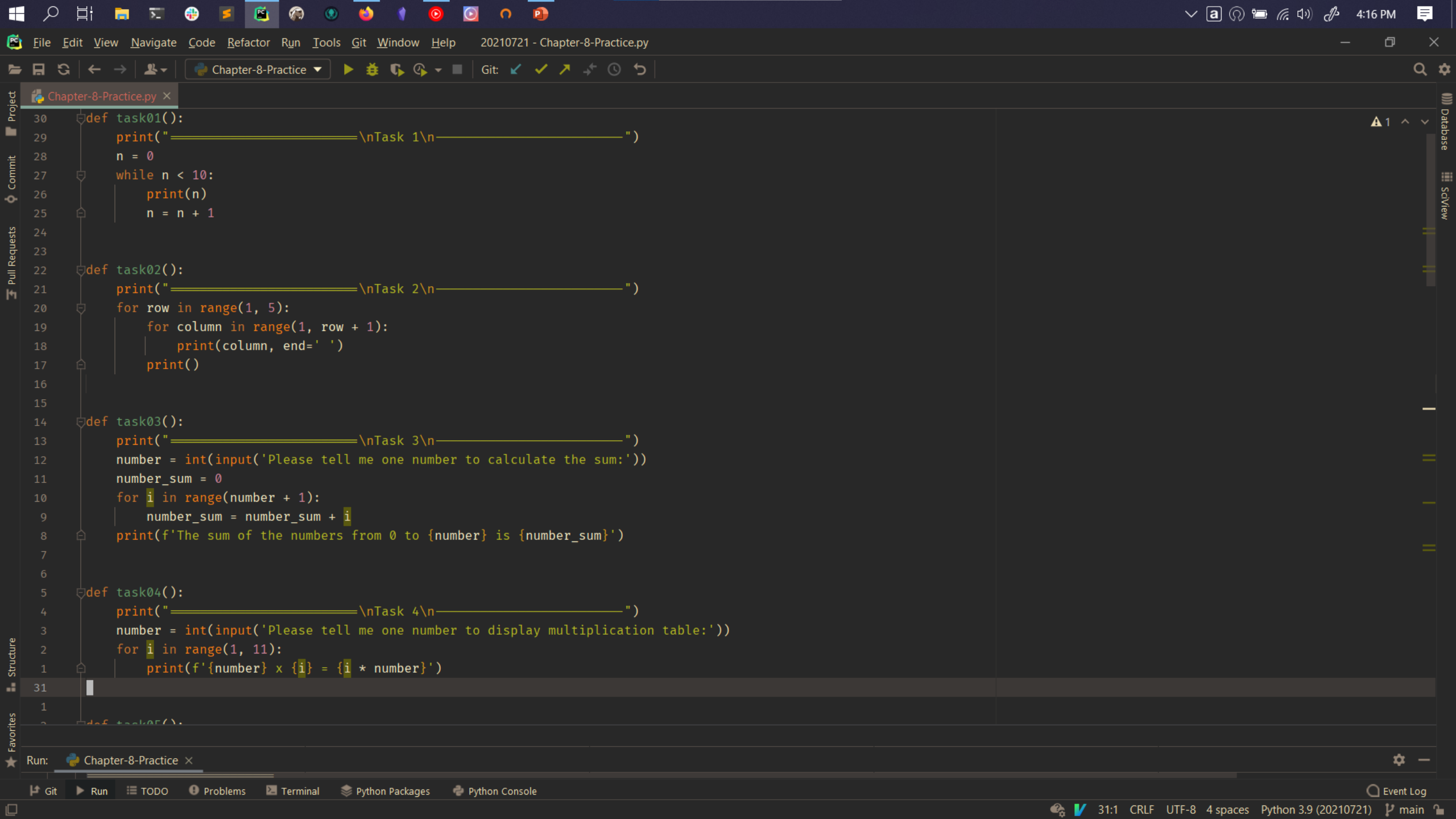


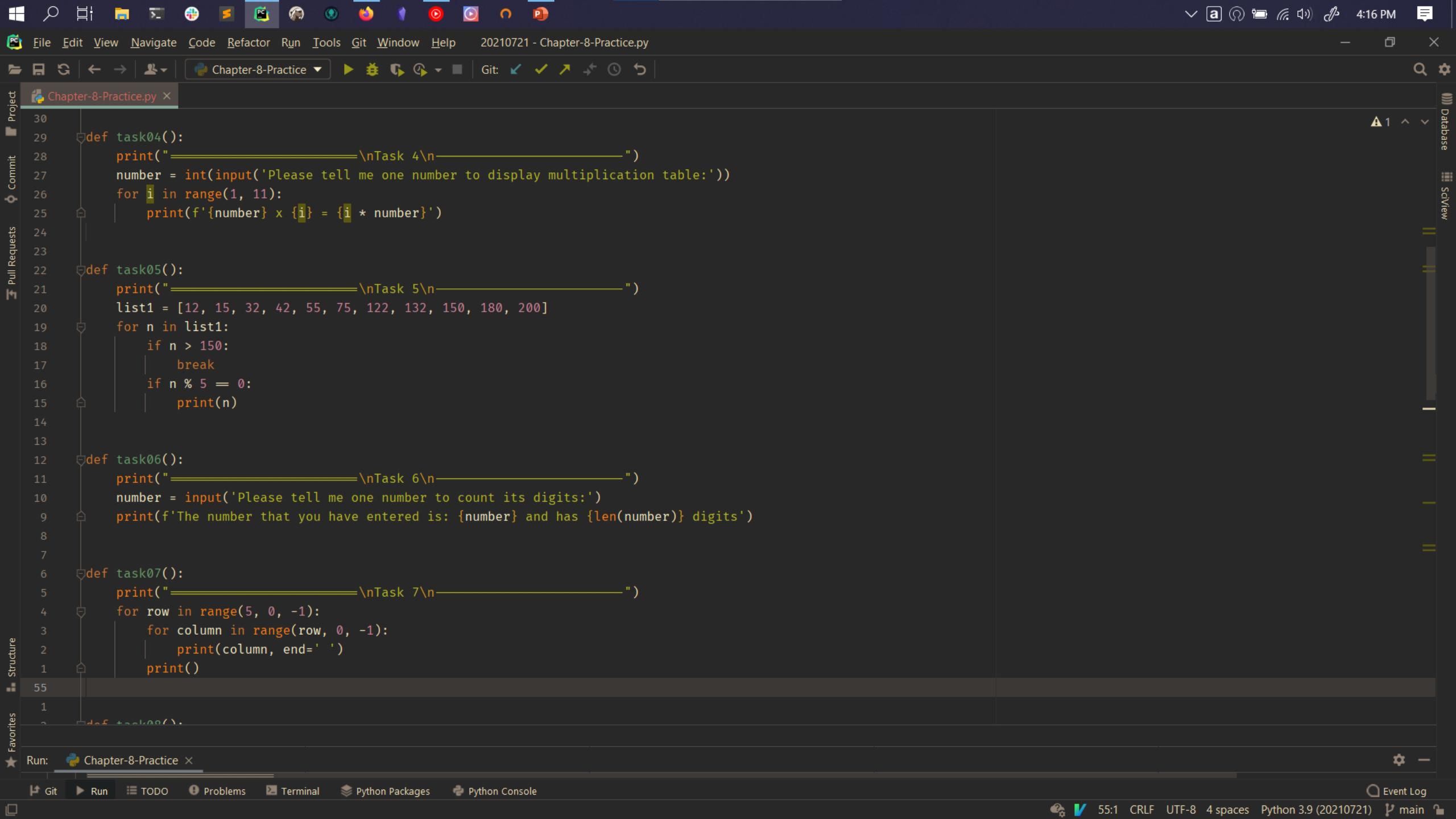
```python
def task01():
    print("═══════════════════════\nTask 1\n──────────────────────")
    n = 0
    while n < 10:
        print(n)
        n = n + 1


def task02():
    print("═══════════════════════\nTask 2\n──────────────────────")
    for row in range(1, 5):
        for column in range(1, row + 1):
            print(column, end=' ')
        print()


def task03():
    print("═══════════════════════\nTask 3\n──────────────────────")
    number = int(input('Please tell me one number to calculate the sum:'))
    number_sum = 0
    for i in range(number + 1):
        number_sum = number_sum + i
    print(f'The sum of the numbers from 0 to {number} is {number_sum}')


def task04():
    print("═══════════════════════\nTask 4\n──────────────────────")
    number = int(input('Please tell me one number to display multiplication table:'))
    for i in range(1, 11):
        print(f'{number} x {i} = {i * number}')


def task05():
```



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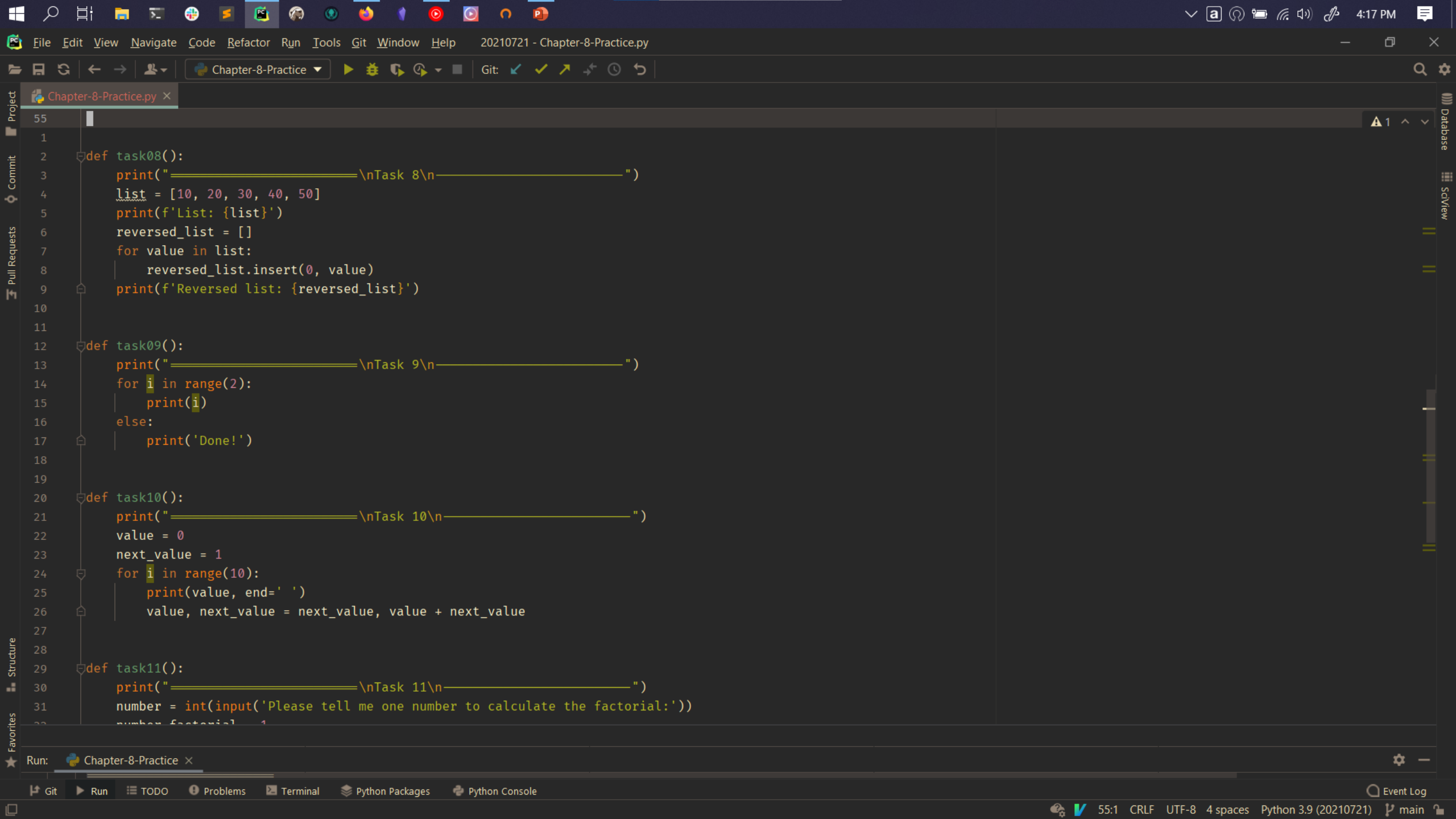
Chapter-8-Practice.py

```python

def task04():
    print("═══════════════════════\nTask 4\n──────────────────────")
    number = int(input('Please tell me one number to display multiplication table:'))
    for i in range(1, 11):
        print(f'{number} x {i} = {i * number}')


def task05():
    print("═══════════════════════\nTask 5\n──────────────────────")
    list1 = [12, 15, 32, 42, 55, 75, 122, 132, 150, 180, 200]
    for n in list1:
        if n > 150:
            break
        if n % 5 == 0:
            print(n)


def task06():
    print("═══════════════════════\nTask 6\n──────────────────────")
    number = input('Please tell me one number to count its digits:')
    print(f'The number that you have entered is: {number} and has {len(number)} digits')


def task07():
    print("═══════════════════════\nTask 7\n──────────────────────")
    for row in range(5, 0, -1):
        for column in range(row, 0, -1):
            print(column, end=' ')
        print()


def task08():
```

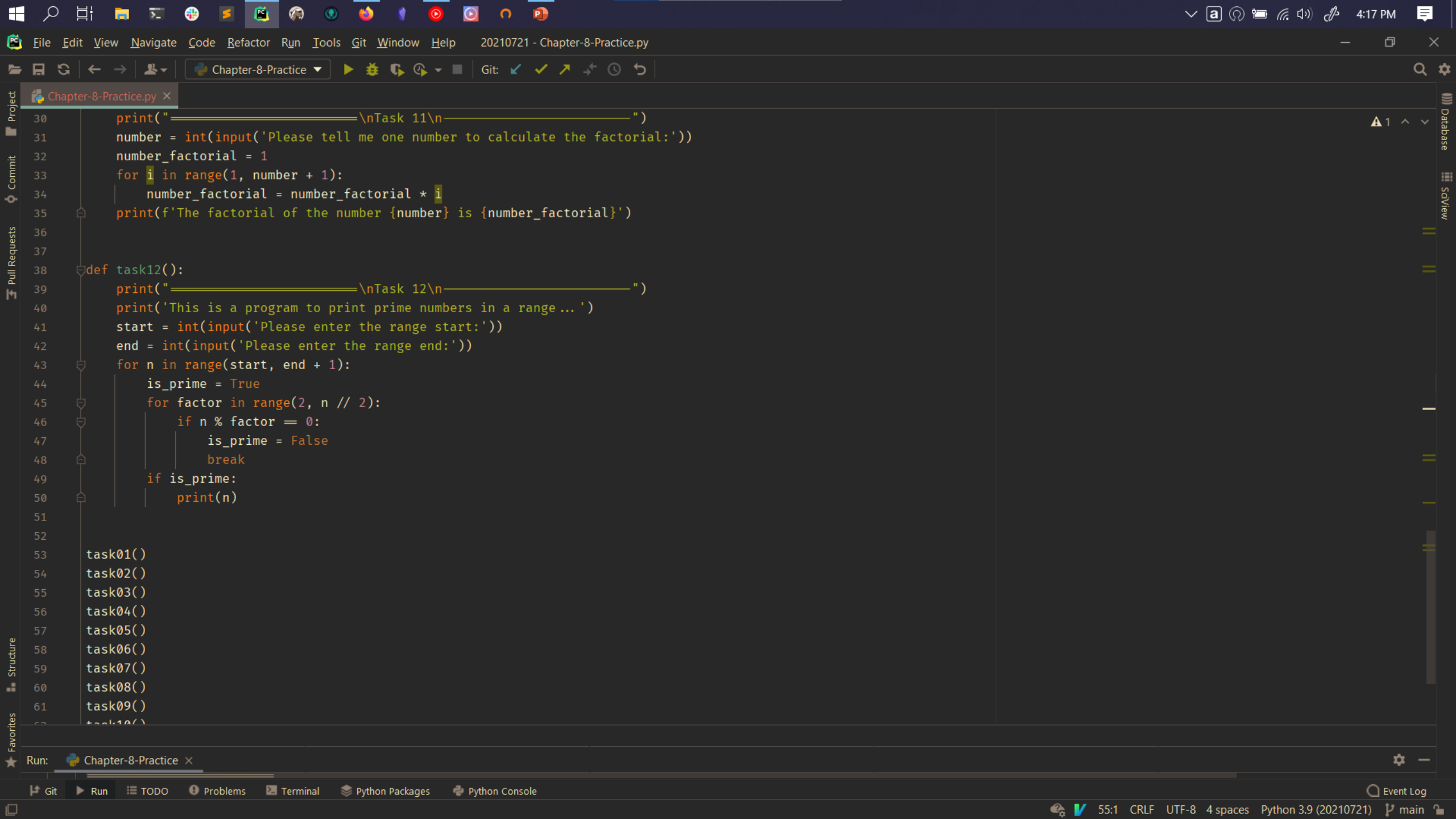
Run: Chapter-8-Practice

Git Run TODO Problems Terminal Python Packages Python Console Event Log

55:1 CRLF UTF-8 4 spaces Python 3.9 (20210721) main



```python

def task08():
    print("═══════════════════════\nTask 8\n──────────────────────")
    list = [10, 20, 30, 40, 50]
    print(f'List: {list}')
    reversed_list = []
    for value in list:
        reversed_list.insert(0, value)
    print(f'Reversed list: {reversed_list}')


def task09():
    print("═══════════════════════\nTask 9\n──────────────────────")
    for i in range(2):
        print(i)
    else:
        print('Done!')


def task10():
    print("═══════════════════════\nTask 10\n──────────────────────")
    value = 0
    next_value = 1
    for i in range(10):
        print(value, end=' ')
        value, next_value = next_value, value + next_value


def task11():
    print("═══════════════════════\nTask 11\n──────────────────────")
    number = int(input('Please tell me one number to calculate the factorial:'))
```


File Edit View Navigate Code Refactor Run Tools Git Window Help
20210721 - Chapter-8-Practice.py
Chapter-8-Practice
Chapter-8-Practice.py
print("═══════════════════════\nTask 11\n———————————————————")
number = int(input('Please tell me one number to calculate the factorial:'))
number_factorial = 1
for i in range(1, number + 1):
number_factorial = number_factorial * i
print(f'The factorial of the number {number} is {number_factorial}')
def task12():
print("═══════════════════════\nTask 12\n———————————————————")
print('This is a program to print prime numbers in a range ... ')
start = int(input('Please enter the range start:'))
end = int(input('Please enter the range end:'))
for n in range(start, end + 1):
is_prime = True
for factor in range(2, n // 2):
if n % factor == 0:
is_prime = False
break
if is_prime:
print(n)
task01()
task02()
task03()
task04()
task05()
task06()
task07()
task08()
task09()
Run: Chapter-8-Practice
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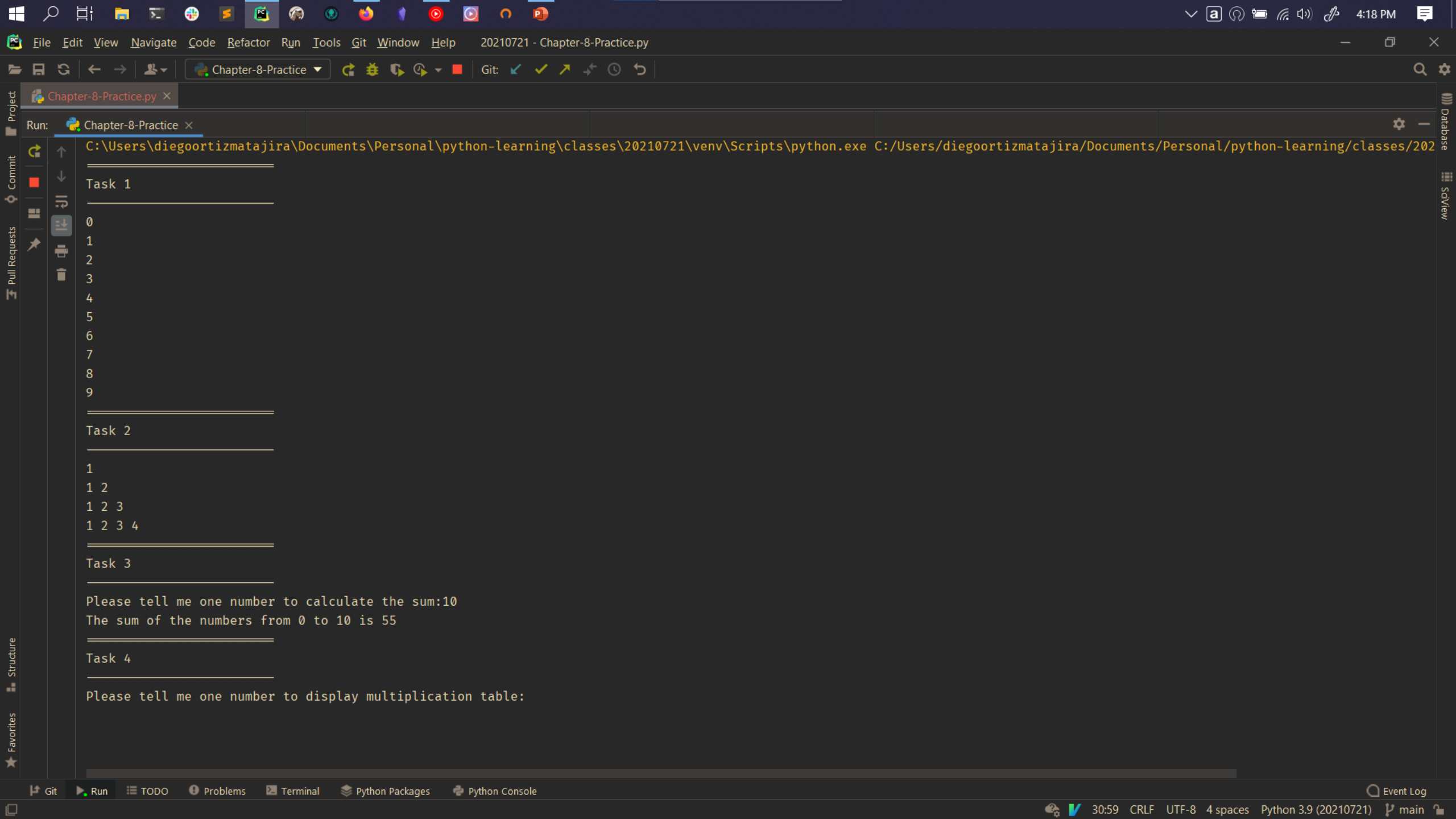
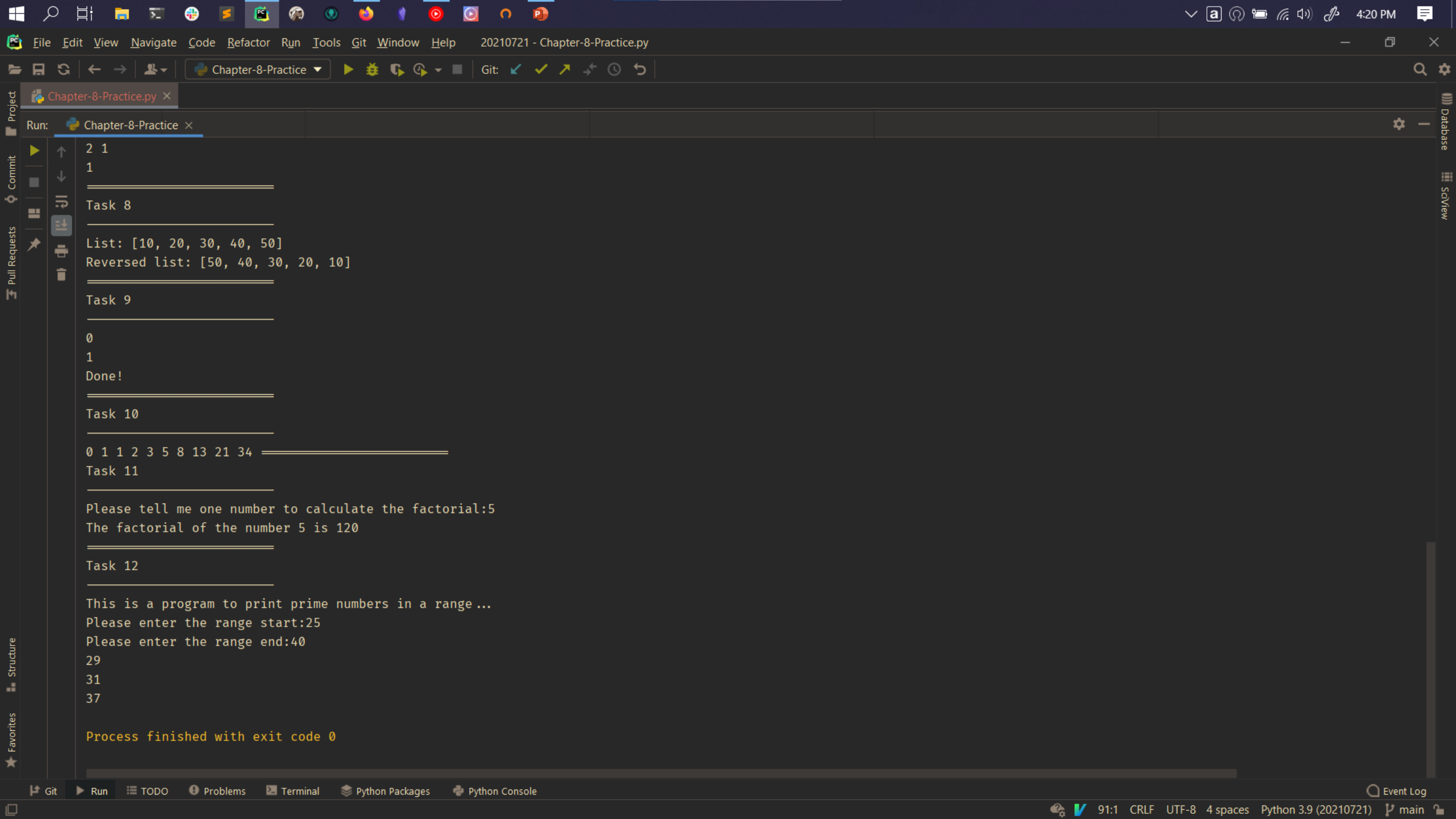
Code execution


File Edit View Navigate Code Refactor Run Tools Git Window Help
20210721 - Chapter-8-Practice.py
Chapter-8-Practice
Git:
Chapter-8-Practice.py
Run: Chapter-8-Practice
C:\Users\diegoortizmatajira\Documents\Personal\python-learning\classes\20210721\venv\Scripts\python.exe C:/Users/diegoortizmatajira/Documents/Personal/python-learning/classes/202
Task 1
0
1
2
3
4
5
6
7
8
9
Task 2
1
1 2
1 2 3
1 2 3 4
Task 3
Please tell me one number to calculate the sum:10
The sum of the numbers from 0 to 10 is 55
Task 4
Please tell me one number to display multiplication table:
Project
Commit
Pull Requests
Structure
Favorites
Database
SciView
Git
Run
TODO
Problems
Terminal
Python Packages
Python Console
Event Log
30:59 CRLF UTF-8 4 spaces Python 3.9 (20210721) main

Chapter-8-Practice.py

Run: Chapter-8-Practice

```
Task 4
_____________________________
Please tell me one number to display multiplication table:2
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
=============================
Task 5
_____________________________
15
55
75
150
=============================
Task 6
_____________________________
Please tell me one number to count its digits:75869
The number that you have entered is: 75869 and has 5 digits
=============================
Task 7
_____________________________
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1
=============================
```


File Edit View Navigate Code Refactor Run Tools Git Window Help
20210721 - Chapter-8-Practice.py
Chapter-8-Practice
Git:
Chapter-8-Practice.py
Run: Chapter-8-Practice
2 1
1
Task 8
List: [10, 20, 30, 40, 50]
Reversed list: [50, 40, 30, 20, 10]
Task 9
0
1
Done!
Task 10
0 1 1 2 3 5 8 13 21 34
Task 11
Please tell me one number to calculate the factorial:5
The factorial of the number 5 is 120
Task 12
This is a program to print prime numbers in a range ...
Please enter the range start:25
Please enter the range end:40
29
31
37
Process finished with exit code 0
Git Run TODO Problems Terminal Python Packages Python Console Event Log
91:1 CRLF UTF-8 4 spaces Python 3.9 (20210721) main