## Ex1 and solution

```
ex1.py - group 4 lab functions - Visual Studio Code
                                                                                    ex4.py U
               ex1.py U X
                                                                               ex1.py > ...
  1
      from math import pi
  2
  3
      def circumference_of_circle(radius):
  4
          circumference = 2 * pi * radius
  5
          print(f"Circumference of the circle is {round(circumference, 3)}")
  6
  7
      def area_of_circle(radius):
          area = pi * radius ** 2
  8
  9
          print(f"Area of the circle is {round(area, 3)}")
 10
 11
      radius = float(input('enter the radius of the circle: '))
 12
 13
      circumference_of_circle(radius)
 14
      area_of_circle(radius)
 15
 16
 17
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL COMMENTS \bigcirc Python + \vee \square \stackrel{...}{\square} \cdots \wedge \times
```

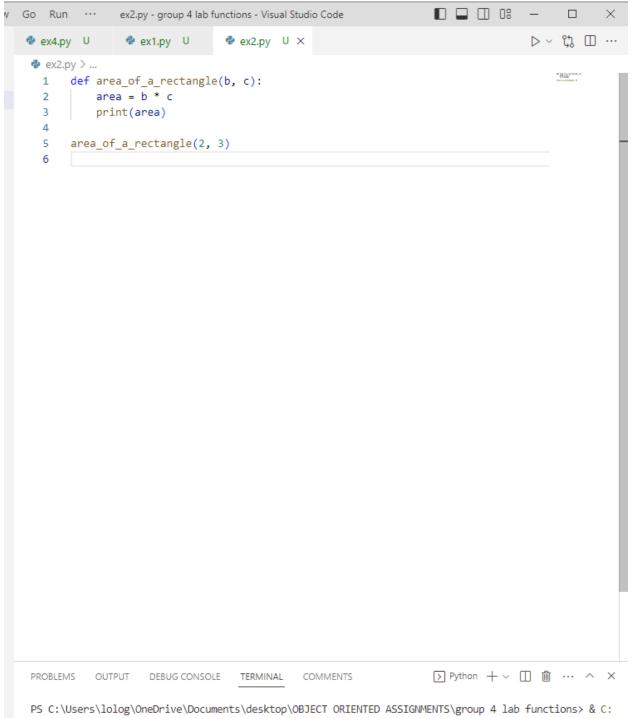
PS C:\Users\lolog\OneDrive\Documents\desktop\OBJECT ORIENTED ASSIGNMENTS\group 4 lab functions> & C: /Users/lolog/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lolog/OneDrive/Documents/desktop/OBJECT ORIENTED ASSIGNMENTS/group 4 lab functions/ex1.py" enter the radius of the circle: 1

Circumference of the circle is 6.283

Area of the circle is 3.142

PS C:\Users\lolog\OneDrive\Documents\desktop\OBJECT ORIENTED ASSIGNMENTS\group 4 lab functions>

## Ex2 and solution



PS C:\Users\lolog\OneDrive\Documents\desktop\OBJECT ORIENTED ASSIGNMENTS\group 4 lab functions> & C: /Users/lolog/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lolog/OneDrive/Documents/desktop/OBJECT ORIENTED ASSIGNMENTS/group 4 lab functions/ex2.py"

PS C:\Users\lolog\OneDrive\Documents\desktop\OBJECT ORIENTED ASSIGNMENTS\group 4 lab functions>

## Ex3 and solution

```
ex3.py > ...
      def average(n):
 2
          numbers = 0
          if n > 1:
 3
              for i in range(1, n + 1):
                 numbers = numbers + i
 5
 6
              avg = numbers / n
 7
              print(f"The average of integers from 1 to {n} is {avg}")
 8
 9
      average(5)
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL COMMENTS  $\bigcirc$  Python  $+ \lor \square$   $\stackrel{...}{\square}$   $\cdots$   $^{\wedge}$   $\times$ 

PS C:\Users\lolog\OneDrive\Documents\desktop\OBJECT ORIENTED ASSIGNMENTS\group 4 lab functions> & C: /Users/lolog/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lolog/OneDrive/Documents/desktop/OBJECT\_ORIENTED ASSIGNMENTS/group 4 lab functions/ex3.py"

The average of integers from 1 to 5 is 3.0

PS C:\Users\lolog\OneDrive\Documents\desktop\OBJECT ORIENTED ASSIGNMENTS\group 4 lab functions>

```
Go Run Terminal Help
                                                                                ex4.py - group 4
ex4.py U X
 ex4.py > ...
       # Function to add two numbers
   2
       def add(x, y):
   3
           return x + y
   4
   5
       # Function to subtract two numbers
       def subtract(x, y):
   6
   7
           return x - y
   8
   9
       # Function to multiply two numbers
  10
       def multiply(x, y):
           return x * y
  11
  12
       # Function to divide two numbers
  13
       def divide(x, y):
  14
  15
           return x / y
  16
       num1 = float(input("Enter first number: "))
  17
       num2 = float(input("Enter second number: "))
  18
       operator = input("Enter operator (add /subtract /multiply /divide): ").lower()
  19
  20
       if operator == 'add':
  21
  22
           result = add(num1, num2)
       elif operator == 'subtract':
  23
           result = subtract(num1, num2)
  24
       elif operator == 'multiply':
  25
           result = multiply(num1, num2)
  26
       elif operator == 'divide':
  27
           result = divide(num1, num2)
  28
  29
       else:
  30
           print("Invalid operator")
  31
  32
       print(f"Answer equal {result}")
  33
```

