

Intro to Python

Homework 1

Problem 1

- Write a program that displays *Welcome to Intro to Python*.
- Given three numbers, 12, 4, and 9, write a program that prints the following:

The average of 12, 4, and 9 is:

8.333...

Problem 2

Write a program that computes the following:

$$\frac{9.5 \times 4.5 - 2.5 \times 3}{45.5 - 3.5}$$

The correct answer is 0.839285...

Problem 3

The number π can be approximated using the Leibniz formula:

$$\frac{\pi}{4} = 1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \frac{1}{9} - \dots$$

Write a program approximating π to the 6th term in the series ($\frac{1}{11}$) and the 8th ($\frac{1}{15}$).

Don't forget to alternate the signs.