

Pair Programming Lab 4

In the following exercise, you will be using Python to solve logical problems in pairs.

- Use the function `input()` to take input from the user
- Use the function `print()` to display output to the user
- For each problem, you should create a file `python##.py` (`##` represents the number of the exercise → for example, 1 or 2a...)
- At the end, compress all the files in 1 folder named “Name1Name2Lab4”

Problem 1:

Take 2 numbers and print the power 3 of all even numbers between them

Sample Input

1 7

Sample Output

8 64 216

Problem 2:

Take a string and check how many times did the first character occur in it

Sample Input

hello

Bob

Sample Output

1

2

Problem 3:

Generate a random number between 1 and 30. Ask the user to guess this number. Allow the user 5 tries and check if the number is true.

Sample Input

Enter your guess: 10

Enter your guess: 20

Enter your guess: 25

Sample Output

Wrong!

Wrong!

Right!

Problem 4:

Create a function that takes a string and returns it.

Sample Input

Hello

World

Sample Output

Hello

World

Problem 5:

Create a function that takes 2 numbers and returns their sum.

Sample Input

Sample Output

1 2

3

-1 2

1

Problem 6:

Create a function that takes a number and checks if it's prime. The function returns true or false. If it returns true, you should print "prime", if it returns false, you should print "not prime"

Sample Input

10

7

Sample Output

not prime

prime