

## Python Core

### Homework Assignments

# Module: Exceptions

## Part 1

### Task 1

Write a program that asks a user for name and age. After receiving the data, the program must output a greeting in the format: "Hello, {name}! Your age is {age}". Handle an exception that occurs when an invalid age is entered (age < 0 or age > 130) and output an error message.

### Task 2

Implement the first assignment through a function. The function must take name and age as parameters and return a formatted string. The correctness check of the data received must be inside the function. Create two versions of the function implementation:

- The first version does not handle the exception inside the function. All processing is outside the function;
- The second version handles the exception inside the function.

### Task 3

Write a program that allows a user to enter a set of positive (numbers greater than zero) numbers from the keyboard. The numbers should be accumulated in a list. After receiving all the values, the program should analyze the data. If a negative value is detected, the program should generate an exception. If all values in the list are positive, the program should return to the screen the sum of all the numbers in the list.

The exception generated should be handled by the program code.

### Task 4

Implement the third task through a function. The function should take a list as an argument and return the sum of the list elements. The correctness check should be inside the function. Create two versions of the function implementation:

- The first version does not handle the exception inside the function. All processing is outside the function;
- The second version handles the exception inside the function.