# TASK – WEEK 3

# TASK: Working with Sequences and String Formatting in Python

## 1. Working with lists

- You are given the following list of numbers:

numbers = [10, 20, 30, 40, 50]

- Access and print:

the first element

the last element

the middle element (use len() to calculate the index)

- Add the number 60 to the end of the list.

- Insert the number 15 at index 1.

- Remove the last element from the list.

- Print the length of the list.

- Sort the list and print it.

## 2. Change a specific word in a sentence

- Write a Python script that changes the target word into a new word from a sentence **without** using the replace() function.

- Example:

sentence = "Python is fun because Python is powerful"

target\_word = "Python"

new\_word = "Programming"

## 3. Palindrome check with slicing

- Create a Python script that checks if a given word is a palindrome using slicing.  
- Hint: palindromes are 'o', 'madam'…

## 4. f-string formatting

- Create a Python script that demonstrates the use of f-strings to format and display information in a clean and readable way.

- Example -> define the following variables:

name = "Alice"  
age = 30  
balance = 1234.56789  
membership\_date = "2023-08-12"  
status = True

- Use f-strings to print the following:  
1. A sentence that introduces the user, including name and age.  
2. The balance is formatted with:

exactly two decimal places  
prefixed with a currency symbol ($)  
aligned to the right in a field of width 10

3. The membership date formatted using a placeholder like: Member since: 2023-05-15  
4. A boolean sentence like: "Active member: Yes" if status is True, otherwise "Active member: No".

## Note

- Tasks are not mandatory; they are voluntary.  
- Tasks are not time-limited when they need to be done – ideally, they should follow up on a weekly presentation, but not necessarily.  
- Saved .py files send to emails:  
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 [djordje.munizaba@endava.com](mailto:djordje.munizaba@endava.com)