Python Exercises – Medium-Low Complexity

Problem 1: Unique Numbers

Description:Writes
a function that takes a list of integers and returns a new list with only the unique numbers (no repetitions), maintaining the original order.

Example:
Input: `[1, 2, 2, 6, 6, 6, 3, 3, 4, 4, 5]`
Expected output: `[1, 2, 6, 3, 4, 5]`

Problem 2: Conditional Sum

Description:
Creates a function that takes a list of numbers and returns the sum only of numbers greater than 10 and even.

Example:
Input: `[5, 12, 18, 7, 20]`
Expected output: `50`

Problem 3: Intersection of Lists

Description:Writes
a program that receives two lists and returns a new list with the elements that exist in both (without repetitions).

Example:
Input: `[1, 2, 3, 4]` and `[3, 4, 5, 6]`
Expected output: `[3, 4]`

Problem 4: Deleting Multiples of 3

Description:Writes
a function that takes a list of integers and returns a new list without the multiples of 3.

Example:
Input: `[3, 5, 6, 7, 9, 10]`
Expected output: `[5, 7, 10]`

Problem 5: Check Ascending Order

Description:
Creates a function that checks whether the elements of a list are in ascending order.

Example:
Input: `[1, 2, 3, 5]` → `True; Input: [1, 3, 2, 4]` → `False`