**PYTHON: ASSIGNMENT 02**

**PROBLEM STATEMENT 1:**

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**Code:**

def find\_unique\_elements(lst):

    unique\_list = []

    for num in lst:

        if num not in unique\_list:

            unique\_list.append(num)

    return unique\_list

L = [1, 1, 1, 1, 2, 2, 3, 3, 3, 3, 4, 5]

unique\_elements = find\_unique\_elements(L)

print("Unique elements:", unique\_elements)

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Description automatically generated with low confidence**

**PROBLEM STATEMENT 2:**

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Description automatically generated

**EXECUTION:**

**Case1:**

When user input exists in the list

**Code:** def check\_number\_existence(lst, number):

    for item in lst:

        if isinstance(item, list):

            if check\_number\_existence(item, number):

                return True

        elif item == number:

            return True

    return False

L = [1, 2, 3, 4, [3, 4]]

number = int(input("Enter a number to check: "))

exists = check\_number\_existence(L, number)

if exists:

    print(f"The number {number} exists in the inner list.")

else:

    print(f"The number {number} does not exist in the inner list.")

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**Case2:**

When user input does not exist in the list

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