**Assignment Day 2 - 11/03/2025**

1. **Perform CRUD operation in an array**

def create():

return []

def add(arr, value):

arr.append(value)

def update(arr, index, value):

if 0 <= index < len(arr):

arr[index] = value

else:

print("Invalid index!")

def read(arr):

return arr

def delete(arr, value):

if value in arr:

arr.remove(value)

else:

print("Value not found!")

def remove(arr, index):

if 0 <= index < len(arr):

arr.pop(index)

else:

print("Invalid index!")

arr = create()

print("Created Array:", arr)

add(arr, 10)

add(arr, 20)

update(arr, 1, 50)

print("Updated Array:", read(arr))

delete(arr, 10)

remove(arr, 0)

print("Final Array:", read(arr))

1. **Take user input of numbers to perform linear search in an array or list**

def lin\_search(ar,match):

for i in range(len(ar)):

if ar[i] == match:

return i

return -1

print('Enter array size')

n=int(input())

ar=[]

print('enter the elements')

for i in range(n):

ar.append(int(input()))

print('Enter element to search')

match = int(input())

print(lin\_search(ar,match))