Coding bat questions

1.Problems on lists

Q1. Given an array of ints, return True if 6 appears as either the first or last element in the array. The array will be length 1 or more.

first\_last6([1, 2, 6]) → True  
first\_last6([6, 1, 2, 3]) → True  
first\_last6([13, 6, 1, 2, 3]) → False

sol:-

def first\_last6(nums):

if nums[0]==6 or nums[-1]==6:

return True

else:

return False

Q2. Given an array of ints, return True if the array is length 1 or more, and the first element and the last element are equal.

same\_first\_last([1, 2, 3]) → False  
same\_first\_last([1, 2, 3, 1]) → True  
same\_first\_last([1, 2, 1]) → True

sol:-

def same\_first\_last(nums):

if len(nums)>=1 and nums[0]==nums[-1]:

return True

else:

return False

Q3. Given an array of ints length 3, return the sum of all the elements.

sum3([1, 2, 3]) → 6  
sum3([5, 11, 2]) → 18  
sum3([7, 0, 0]) → 7

sol-

def sum3(nums):

return sum(nums)

Q4. Given an array of ints length 3, return a new array with the elements in reverse order, so {1, 2, 3} becomes {3, 2, 1}.

reverse3([1, 2, 3]) → [3, 2, 1]  
reverse3([5, 11, 9]) → [9, 11, 5]  
reverse3([7, 0, 0]) → [0, 0, 7]

sol-

def reverse3(nums):

return nums[::-1]

Q5. Create array by taking length from user and values from user

Sol:

from array import \*

arr = array('i',[])

n=int(input('enter length of array'))

for i in range(n):

    x= int(input("enter values"))

    arr.append(x)

print(arr)