WK01\Assignment01_linear_search_Rev2.py

```
def twoNumSum(nums, target):
    hashTable = {}
    for i in range(len(nums)):
        if target - nums[i] in hashTable:
            return [hashTable[target - nums[i]], i]
        hashTable[nums[i]] = i
    return [-1, -1]

a = [2,7,11,15]
target = 9

[firstIndex, secondIndex] = twoNumSum(a,target)

if firstIndex != -1:
    print(f'\nThe value at index {firstIndex} is {a[firstIndex]}. The value at index {secondIndex} is {a[secondIndex]}.')
    print(f'Added together, they are {a[firstIndex]+a[secondIndex]}, which should be equal to the target, {target}.\n')
else:
    print(f'\nNo two numbers in this array add up to the target, {target}.\n')
```

```
PS G:\My Drive\School\01_Fall2024\CS210\WK01> ls


    Directory: G:\My Drive\School\01_Fall2024\CS210\WK01


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
------         8/30/2024   3:47 PM            812 IntroPara.txt
------         8/30/2024   3:48 PM           2685 Assignment01_linear_search.py
------          9/4/2024   6:49 PM            666 Assignment01_linear_search_Rev2.py


PS G:\My Drive\School\01_Fall2024\CS210\WK01> py
.\Assignment01_linear_search_Rev2.py

The value at index 0 is 2. The value at index 1 is 7.
Added together, they are 9, which should be equal to the target, 9.

PS G:\My Drive\School\01_Fall2024\CS210\WK01>
```