

Code

```
nguyen_albert_programming_assignment_2.py
File Edit Source Debug Tools Window Help
nguyen_albert_programming_assignment_2.py
exercise_a_part_three
# Programming Assignment 2 - 68
def exercise_b():
    sum = 0
    list = [1, 4, 9, 16, 9, 7, 4, 9, 11]
    alternatingList = []
    for i in range(0, len(list)):
        if i // 2 == 0:
            number = list[i] * -1
        elif i // 2 != 0:
            number = list[i]
        alternatingList.append(number)
    print(alternatingList)
    print("-- * 30)
60
61
62 exercise_a_part_one()
63 exercise_a_part_two()
64 exercise_a_part_three()
65 exercise_a_part_four()
66 exercise_b()
67
68
69
Line 26 Col 23 -
```

Output

```
nguyen_albert_programming_assignment_2.py
File Edit Source Debug Tools Window Help
nguyen_albert_programming_assignment_2.py
exercise_a_part_one
# Programming Assignment 2 - 6A
def exercise_a_part_one(): # using functions to keep list variable local and call
    list = [7, 7, 7, 4, 9, 4]
    # Reverse the list using slice
    listReverse = list[::-1] # start at [0], negative step
    print(listReverse)
    print("-- * 30)
8
9
10 def exercise_a_part_two():
11     list = [4, 9, 8, 6, 12]
12     # Create a new list without 6
13     listWithoutSix = []
14     for digit in list:
15         if digit != 6:
16             listWithoutSix.append(digit)
17     print(listWithoutSix)
18     print("-- * 30)
19
20
21 def exercise_a_part_three():
22     counter = 0
23     list = [9, 10, 15, 200, 25, 50, 20]
24     # Create a list where only the first instance of 20 is replaced with 200
25     listReplaced = []
26     for digit in list:
27         if digit == 20 and counter == 0:
28             digit = 200
29             counter = counter + 1
30     listReplaced.append(digit)
31     print(listReplaced)
32     print("-- * 30)
33
34
35 def exercise_a_part_four():
36     list1 = ["m", "na", "l", "ke"]
37     list2 = ["y", "me", "s", "lsy"]
38     listCombined = []
39     # Append together using range of [0, 4] because exactly 4 list elements each
40     for i in range(0, len(list1)):
41         listCombined.append(list1[i] + list2[i])
42     print(listCombined)
43     print("-- * 30)
44
45
46 # Programming Assignment 2 - 68
47 def exercise_b():
48     sum = 0
49     list = [1, 4, 9, 16, 9, 7, 4, 9, 11]
50     alternatingList = []
51     for i in range(0, len(list)):
52         if i // 2 == 0:
53             number = list[i] * -1
54         elif i // 2 != 0:
Line 3 Col 29 -
```

Code

```
# Programming Assignment 2 - 6A
def exercise_a_part_one() : # using functions to keep list variable local and call
    list = [1, 2, 3, 4, 5, 6]
    # Reverse the list using slice
    listReverse = list[::-1] # start at [0], negative step
    print(listReverse)
    print("*" * 30)
```

```
def exercise_a_part_two() :
    list = [4, 6, 8, 6, 12]
    # Create a new list without 6
    listWithoutSix = []
    for digit in list :
        if digit != 6 :
            listWithoutSix.append(digit)
    print(listWithoutSix)
    print("*" * 30)
```

```
def exercise_a_part_three() :
    counter = 0
    list = [5, 10, 15, 200, 25, 50, 20]
    # Create a list where only the first instance of 20 is replaced with 200
    listReplaced = []
    for digit in list :
        if digit == 20 and counter == 0:
            digit = 200
            counter = counter + 1
        listReplaced.append(digit)
    print(listReplaced)
    print("*" * 30)
```

```
def exercise_a_part_four() :
    list1 = ["M", "na", "i", "Ke"]
    list2 = ["y", "me", "s", "lly"]
    listCombined = []
    # Append together using range of [0, 4] because exactly 4 list elements each
    for i in range(0, len(list1)):
        listCombined.append(list1[i] + list2[i])
    print(listCombined)
    print("*" * 30)
```

```
# Programming Assignment 2 - 6B
def exercise_b() :
    sum = 0
    list = [1, 4, 9, 16, 9, 7, 4, 9, 11]
    alternatingList = []
    for i in range(0, len(list)):
        if i // 2 == 0 :
            number = list[i] * -1
        elif i//2 != 0 :
            number = list[i]
        alternatingList.append(number)
    print(alternatingList)
    print("*" * 30)
```

```
exercise_a_part_one()
exercise_a_part_two()
exercise_a_part_three()
exercise_a_part_four()
exercise_b()
```