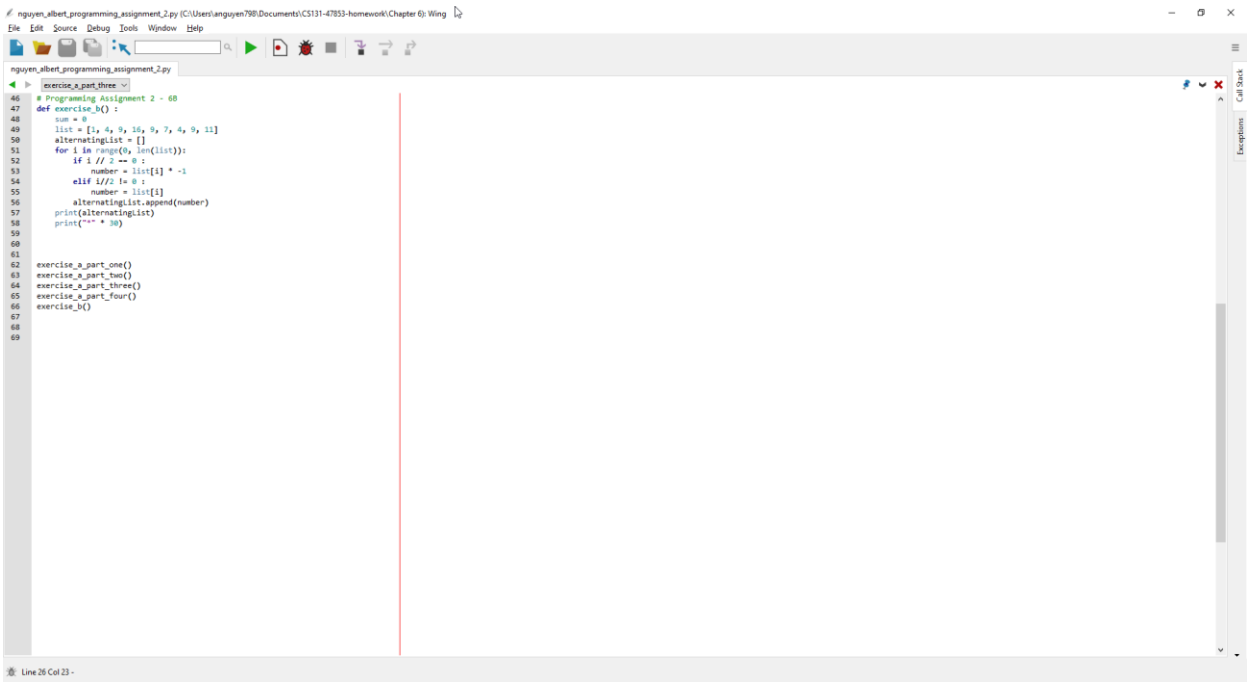
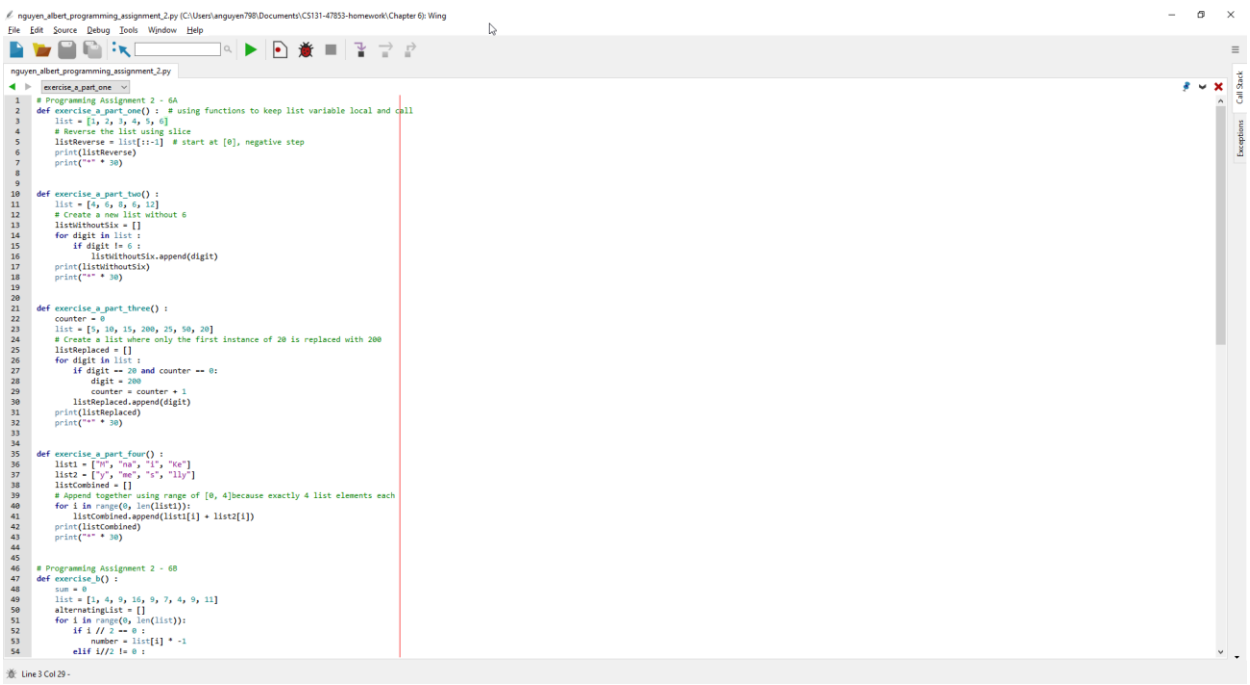
Albert Duy Nguyen
Programming Assignment 2

Code



Output



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()
```