Lab 5

Task 1

input\_str = input().lower()

my\_list = list(input\_str)

print()

print(my\_list)

Task 2

from collections import Counter

input\_str = input().lower()

result\_list = list(Counter(input\_str).items())

print()

print(result\_list)

Task 3

input\_list = [('p', 2), ('u', 1), ('l', 1), (' ', 1), ('f', 1), ('i', 2), ('c', 1), ('t', 1), ('o', 1), ('n', 1)]

list\_vow = [(char, count) for char, count in input\_list if char in 'aeiou']

list\_cons = [(char, count) for char, count in input\_list if char.isalpha() and char not in 'aeiou']

list\_sym = [(char, count) for char, count in input\_list if not char.isalpha()]

print("list\_vow =", list\_vow)

print("list\_cons =", list\_cons)

print("list\_sym =", list\_sym)

Task 4

input\_list = [1, 5, 8, 7, 9, 6, 7, 5, 8, 3, 9, 10, 2, 1, 3, 4]

sorted\_list = sorted(input\_list)

length = len(sorted\_list)

chunk\_size = length // 4

q1, q2, q3, q4 = [sorted\_list[i:i + chunk\_size] for i in range(0, length, chunk\_size)]

print("q1 =", q1)

print("q2 =", q2)

print("q3 =", q3)

print("q4 =", q4)

Task 5

student = {'name': 'Adam', 'assignment': [82, 56, 44, 30], 'test': [78, 77], 'lab': [78.2, 77.2]}

print(student)