4) Get the total count of number listed in the dictionary which is multiple of [1,2,3,4,5,6,7,8,9]

  (examples)

  input: [1,2,8,9,12,46,76,82,15,20,30]

  Output:

    {1: 11, 2: 8, 3: 4, 4: 4, 5: 3, 6: 2, 7: 0, 8: 1, 9: 1}

Sol) def count\_multiples(input\_list):

# Initialize the dictionary to store counts for 1 to 9

multiples\_count = {i: 0 for i in range(1, 10)}

# Count multiples for each number in 1 to 9

for num in range(1, 10):

for item in input\_list:

if item % num == 0: # Check if the number is a multiple

multiples\_count[num] += 1

return multiples\_count

# Input list

input\_list = [1, 2, 8, 9, 12, 46, 76, 82, 15, 20, 30]

# Get the count of multiples

output = count\_multiples(input\_list)

# Print the result

print(output)