**Q1.** **Sum of Even Numbers in a List**

Write a function `sum\_even(numbers)` that returns the sum of all even numbers in a list.

Example:

sum\_even([1, 2, 3, 4, 5, 6]) -> 12

Starter Code:

def sum\_even(numbers):

# Your code here

pass

**Q2. Reverse a List Without Using reverse()**

Write a function that takes a list and returns a new list with elements in reverse order.

Example:

 reverse\_list([1, 2, 3]) -> [3, 2, 1]

Starter Code:

def reverse\_list(lst):

# Your code here

pass

**Q3.** **Count Vowels in a String**

Write a function `count\_vowels(text)` that returns the number of vowels (a, e, i, o, u) in a string.

Example:

count\_vowels('hello world') -> 3

Starter Code:

def count\_vowels(text):

# Your code here

pass

**Q4. Flatten a List of Lists**

Write a function that takes a list of lists and returns a flat list.

Example:

flatten([[1, 2], [3, 4]]) ->[1, 2, 3, 4]

Starter Code:

def flatten(matrix):

# Your code here

pass

**Q5. Get Top 2 Largest Numbers**

Write a function that returns the two largest numbers in a list.

Example:

 top\_two([1, 9, 3, 7, 5]) -> [9, 7]

Starter Code:

def top\_two(numbers):

# Your code here

pass

**Q6. Frequency Dictionary**

Write a function `frequency\_counter(lst)` that returns a dictionary with the count of each element.

Example:

frequency\_counter(['a', 'b', 'a', 'c', 'b']) -> {'a': 2, 'b': 2, 'c': 1}

Starter Code:

def frequency\_counter(lst):

# Your code here

pass

**Q7. Safe Division**

Write a function `safe\_divide(a, b)` that divides a by b, but returns 'Error' if b is 0.

Example:

safe\_divide(10, 2) 5

safe\_divide(5, 0) 'Error'

Starter Code:

def safe\_divide(a, b):

# Your code here

pass

**Q8. Square Dictionary**

Write a function `square\_dict(n)` that returns a dictionary from 1 to n with squares as values.

Example:

square\_dict(3) -> {1: 1, 2: 4, 3: 9}

Starter Code:

def square\_dict(n):

# Your code here

pass

**Q9. Check if List is Sorted**

Write a function `is\_sorted(lst)` that returns True if the list is sorted in ascending order.

Example:

Example:

is\_sorted([1, 2, 3]) True

is\_sorted([3, 1, 2]) False

Starter Code:

def is\_sorted(lst):

# Your code here

pass

**Q10. CSV Writer**

Write a function `write\_csv(data)` that takes a list of lists and writes it to 'output.csv'.

Example:

data = [['Name', 'Age'], ['Alice', 25], ['Bob', 30]]

write\_csv(data)

Starter Code:

def write\_csv(data):

# Your code here

pass