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In [1]: # Question 1: Print a Pyramid Pattern of Stars
def print_pyramid(n):
    for i in range(1, n + 1):
        print(" " * (n - i), end="")
        print("*" * (2 * i - 1))

n = int(input("Enter the number of rows for the pyramid: "))
print_pyramid(n)
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In [2]: def count_even_odd(numbers):
    even_count = 0
    odd_count = 0
    for num in numbers:
        if num % 2 == 0:
            even_count += 1
        else:
            odd_count += 1
    print(f"Even numbers: {even_count}, Odd numbers: {odd_count}")

numbers = [1, 2, 3, 4, 5, 6]
count_even_odd(numbers)
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Even numbers: 3, Odd numbers: 3

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In [3]: def sum_of_even_numbers(start, end):
    even_sum = 0
    for num in range(start, end + 1):
        if num % 2 == 0:
            even_sum += num
    return even_sum

start = int(input("Enter the start of the range: "))
end = int(input("Enter the end of the range: "))
result = sum_of_even_numbers(start, end)
print(f"The sum of even numbers in the range [{start}, {end}] is: {result}")
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The sum of even numbers in the range [2, 5] is: 6

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In [ ]:
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