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# Problem 1: Determine the day with the highest sales

# Create a list of sales for each weekday
Sale_list = [50, 75, 150, 125, 100]

# Create a corresponding list of weekdays
Week_list = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]

# Initialize variables to track the maximum sale and its index
max_sale = Sale_list[0]
max_index = 0

# Loop through the sales list to find the maximum sale
for i in range(1, len(Sale_list)):
    if Sale_list[i] > max_sale:
        max_sale = Sale_list[i]
        max_index = i

# Display the results using f-strings
print(f"The Max sales is ${max_sale}")
print(f"The Max sales day is {Week_list[max_index]}")

# Problem 2: Input a series of numbers and calculate the range

# Initialize an empty list to store user inputs
number_list = []

# Prompt the user to enter numbers until they enter 0
while True:
    user_input = float(input("Enter value (or 0 to end): "))
    if user_input == 0:
        break
    number_list.append(user_input)

# Display the list of entered numbers
print(number_list)

# Calculate the range if the list is not empty
if len(number_list) > 0:
    max_value = number_list[0]
    min_value = number_list[0]

    # Loop through the list to find max and min
    for num in number_list:
        if num > max_value:
            max_value = num
        if num < min_value:
            min_value = num

    # Calculate the range
    range_value = max_value

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