Exercise 85:

**Operating Mechanism of a for Loop (based on the flowchart):**

1. **For Each Item in Sequence**: The loop starts by selecting the first item in the sequence (e.g., a list, range, or any iterable).
2. **Check if Last Item is Reached**: The loop checks if the current item is the last in the sequence.

If **True** (the last item is reached), the loop exits.

If **False** (more items are left), it executes the **statements** inside the loop.

1. **Statements**: The loop processes the current item by executing the code block inside the loop.
2. The loop then repeats the process for the next item in the sequence until all items are processed.

**Example of a for Loop in Python:**

# Example: Print all elements in a list

fruits = ["apple", "banana", "cherry"]

for fruit in fruits:

print(fruit)

# Output:

# apple

# banana

# cherry

**Explanation:**

**"fruits" list** is the sequence. The for loop iterates over each element in the list. It starts with the first item ("apple") and checks if it is the last item. Since it's not, it prints "apple", then moves to "banana", and finally "cherry". After the last item ("cherry") is processed, the loop exits.