✅What is Looping by Zapier?

Looping by Zapier is a special action that lets you **repeat steps for multiple items** in a single Zap.

Think of it as a **for-each loop** in programming:

> If you have a list of items, Zapier can run the same set of actions for each item in that list.

✅Why use it?

Normally, a Zap runs **once per trigger**. But what if:

- A trigger gives you **multiple values** (e.g., a list of email addresses)?
- You need to **process each item individually**?

Instead of creating separate Zaps or steps for each item, **Looping by Zapier** handles it automatically.

✅How does it work?

1. **Trigger fires** (e.g., new order with multiple products).
2. Add **Looping by Zapier** as an action.
3. Provide the **list of items** you want to loop through (e.g., product names, email addresses).
4. Zapier creates a **loop**:
   - For each item in the list, Zapier runs the next steps.
5. Add actions **after the loop** (e.g., send email, update database).

✅Example Use Case

Imagine you get an order with 3 products:

- Product A
- Product B
- Product C

You want to:

- Add each product to a Google Sheet.
- Send a Slack message for each product.

Instead of writing 3 separate steps, you:

- Use **Looping by Zapier** with the product list.
- Zapier runs the sheet update and Slack message **3 times**, once per product.

✓Visual Analogy

Think of a **conveyor belt**:

- You put items on the belt (your list).
- Each item passes through the same machine (your actions).
- The machine processes them one by one.

✓Best Practices

- Make sure your list is **properly formatted** (comma-separated or array).
- Use **Formatter** to split text into a list if needed.
- Keep actions inside the loop **lightweight** (too many steps can slow down execution).
- Avoid infinite loops (Zapier prevents this, but be careful with dynamic lists).

✓Common Uses

- Send individual emails to a list of recipients.
- Process multiple line items in an invoice.
- Create separate tasks for each checklist item.

✓Limitations

- Loops run **sequentially**, not in parallel (so large lists take time).
- Each loop iteration counts as a **task** in Zapier billing.
- Maximum loop size is **500 items** per run.