TechZeen

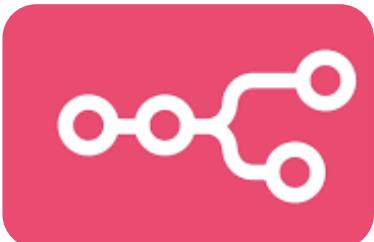# What do you do when your data comes in the wrong format?

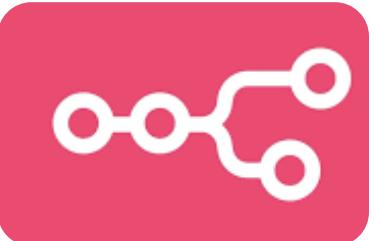You don't fix it manually.

You give your automation a Brain
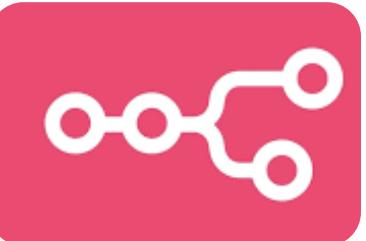
Messy Data → Perfect Data

What is a Code Node?
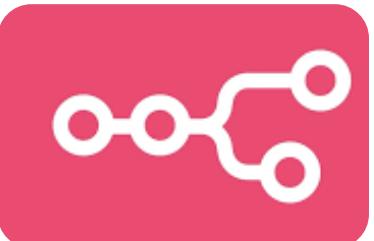## *(Function Node)*

- A Code node lets you write small code inside n8n.
- It helps you read, change, and create data the way you want.
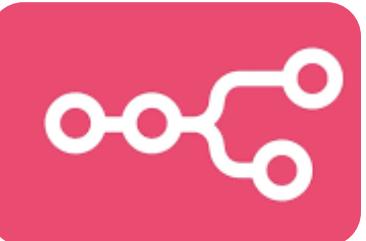- It gives custom control over workflow data.

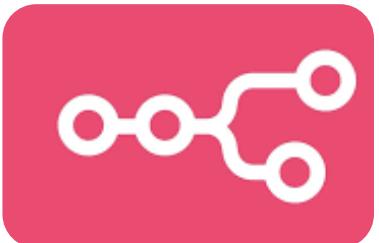◆ **Why It Is Considered the "Brain"?**

- It can apply logic to data.
- It can decide what to keep, remove, or change.
- It can calculate, format, and restructure results.
- When normal nodes are not enough → Code node thinks for you.

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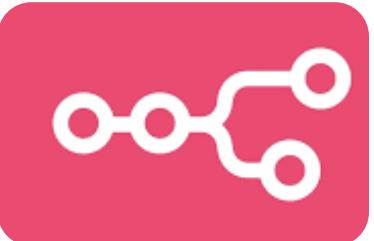
◆ **Why We Need Code Node in n8n?**

- When built-in nodes cannot format data properly.
- To clean messy API responses.
- To combine or split fields.
- To create custom output structure.
- To run calculations or conditions.
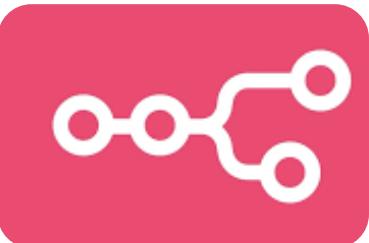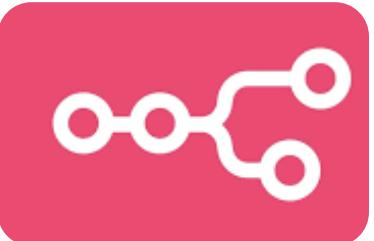- To prepare data before sending to next node.

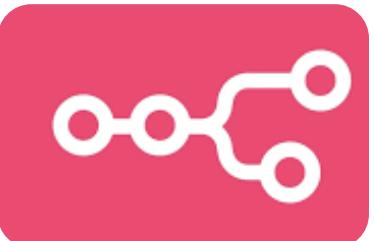**TechZeen**

◆ **What is Parsing Data?**

- Parsing means reading and extracting useful values from raw data.
- Example:
- Take full API JSON → extract name, email, amount only.
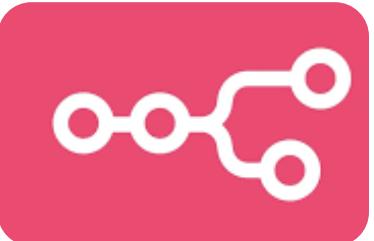- Convert complex data → simple usable fields.
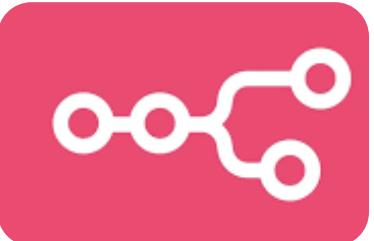
◆ **What is Transforming Data?**

- Transforming means changing data format or structure.
- Example:
- Change date format.
- Convert text to uppercase.
- Merge first + last name.
- Convert numbers, rename keys.

- Parsing = Take what you need
- Transforming = Change it how you need

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Common Things Done in Code Node?

- Rename fields
- Add new calculated fields
- Remove unwanted fields
- Format dates & numbers
- Build custom JSON
- Loop through items
- Create clean output for next node