Name			

Label the Loop in Action

An AI team is training a robot named **HelperBot** to recognize fruit. Let's see what happens in one round of the feedback loop:

- 1. A person shows HelperBot a picture of a red apple.
- 2. HelperBot looks at the picture and says: "This is a tomato."
- 3. The person replies: "No, that's incorrect. This is actually an apple."
- 4. HelperBot stores the correction and updates its knowledge. Next time it sees an apple, it's more likely to answer correctly.

Match the Steps - Below are the four main steps of the AI feedback loop:

Input - The AI receives data or instructions.

Output - The Al gives a result.

Feedback - A person or system responds, saying if it was right or wrong. **Retraining** - The Al updates itself to improve next time.

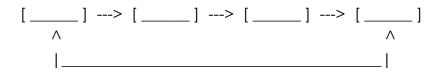


Now, match each part of the HelperBot story (1–4) to the correct step. Example: "A person shows HelperBot a picture of a red apple." \rightarrow Input

- 1. HelperBot looks at the picture and says: "This is a tomato." \rightarrow ______
- 2. The person replies: "No, that's incorrect. This is actually an apple." \rightarrow ______
- 3. HelperBot stores the correction and updates its knowledge. \rightarrow _____

Label the Diagram

Here's the loop again with missing labels. Write the correct step in each blank using Input, Output, Feedback, Retraining.



Reflection

- 1. Why do you think HelperBot made the mistake in the first place?
- 2. If the person never gave feedback, what would happen to HelperBot?
- 3. How is this process similar to how you learn from mistakes in school?

