Name	

What Happens if the Al Loop Breaks?

Al learns through a **feedback loop**, a cycle that repeats again and again:

Input - The AI receives data or a task.

Output - The Al gives an answer or action.

Feedback - A human (or another system) says whether it was right or wrong.

Retraining - The AI updates itself so it can improve next time.

Every step is important. If one step is missing, the cycle is broken - and the AI will not learn properly. Think of it like a chain. If one link is gone, the whole chain fails.

Guided Example Scenario: A student asks a Homework Helper AI: "What is 12 × 8?" **Input**: The student types in the question. **Output**: The AI answers: "82."

Feedback: (Missing Step)

Retraining: Without feedback, the AI keeps giving the same wrong answer.

What's missing? → Feedback

What happens without it? \rightarrow The Al never learns it was wrong, so it keeps repeating the mistake.

Directions: Read each scenario. One step is missing. Write: Which step is missing (**Input**, **Output**, **Feedback**, **or Retraining**) What will happen if that step is skipped?

Scenario A: Voice Assistant

- 1. (Missing Step)
- 2. The Al plays a random pop song.
- 3. The person says: "That's not what I asked for."
- 4. The Al updates and learns to better recognize the request.

Missing Step: _____ What happens without it? _____

Scenario B: Weather AI		
1.	A person asks: "What's the forecast for tomorrow?"	
2.	The Al says: "It will be sunny."	
3.	(Missing Step)	
4.	Without correction, the AI continues making the same prediction errors.	
Missin	g Step: What happens without it?	

