

Langchain

- ✓ 1 Any model
- ✓ 2 Any embedding
- ✓ 3 Prompting
- ✓ 4 Chaining
- ✓ 5 VectorDB
- ✓ 6 Parser

= Agents →

- Langchain = Langgraph

} → (AI Based APP): AI Assistant

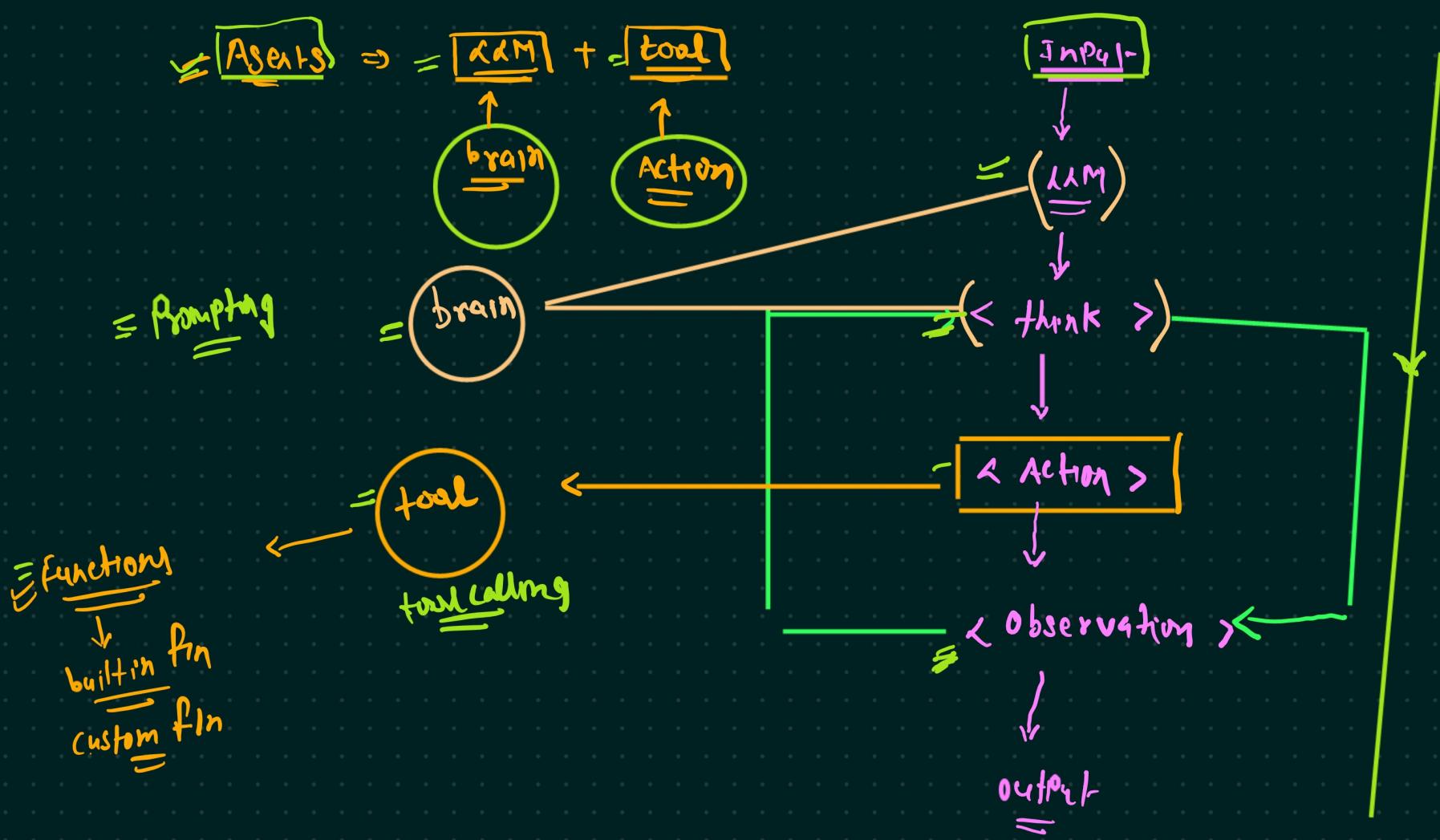
↳ RAG, MMRAG

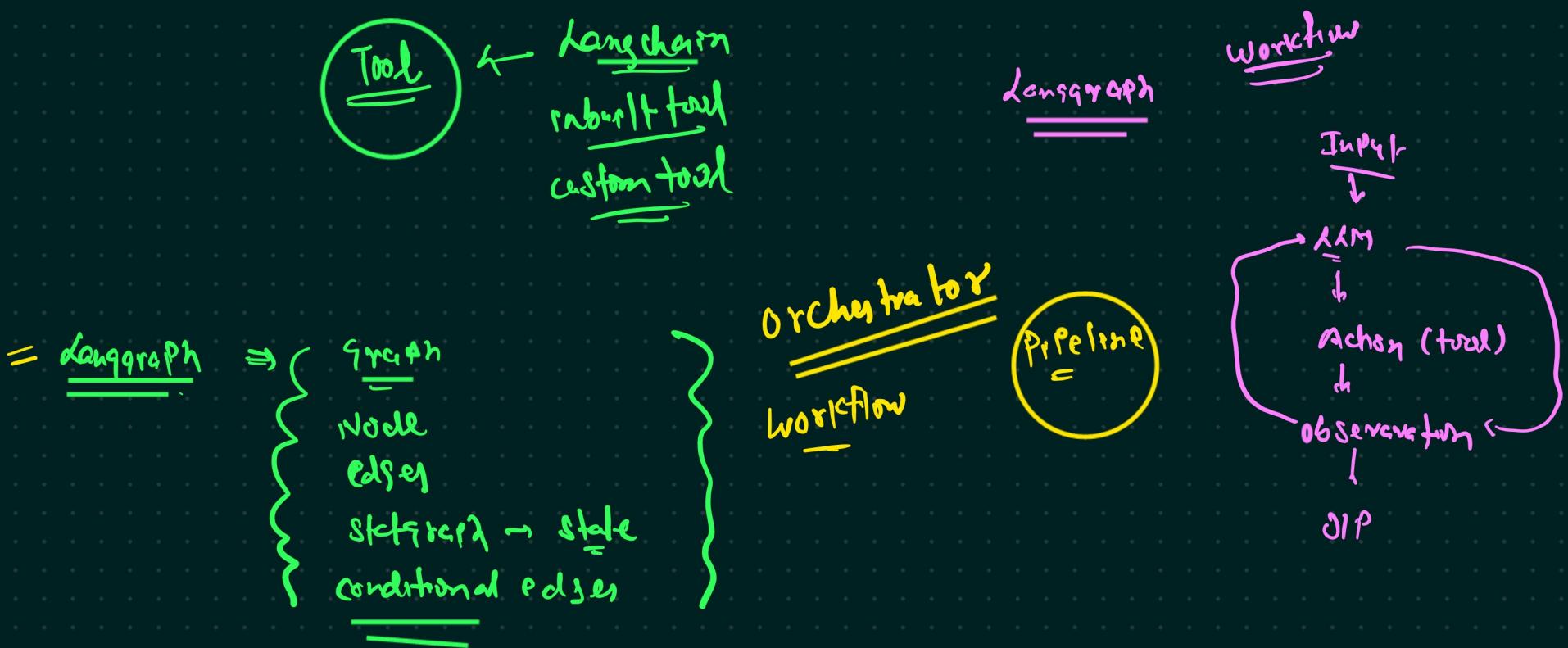
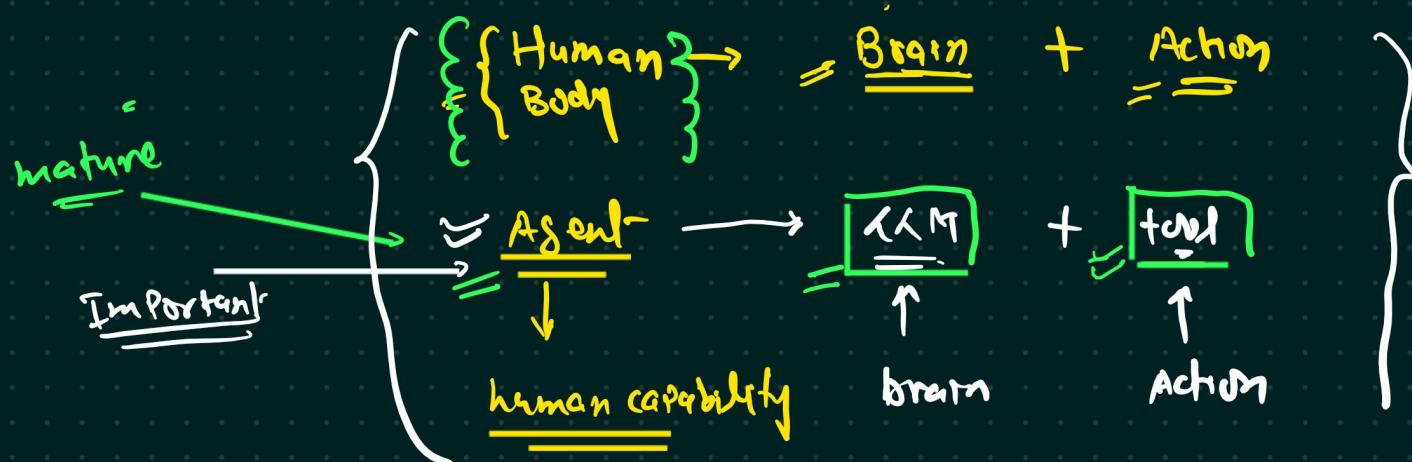
Langgraph → Asentric flow

= Agents. → multiAgent Langgraph

Agent ⇒ Advance AI Assistant
Autonomous System

Agent a tool + LLM





Asent \Rightarrow RAM + tool
= Langraph \Rightarrow Orchestrator framework = Asentie workflow
 \downarrow
Workflow

RAM - think, Action, observation

Planning

Question → What was the stock price of Apple last year?

Ans → Apple \Rightarrow \$\$\$

Question - Can you tell me the today's opening price of Apple?

Ans → RAM \rightarrow think (today's opening price) X

\rightarrow Action (tool calling) \rightarrow Google search API



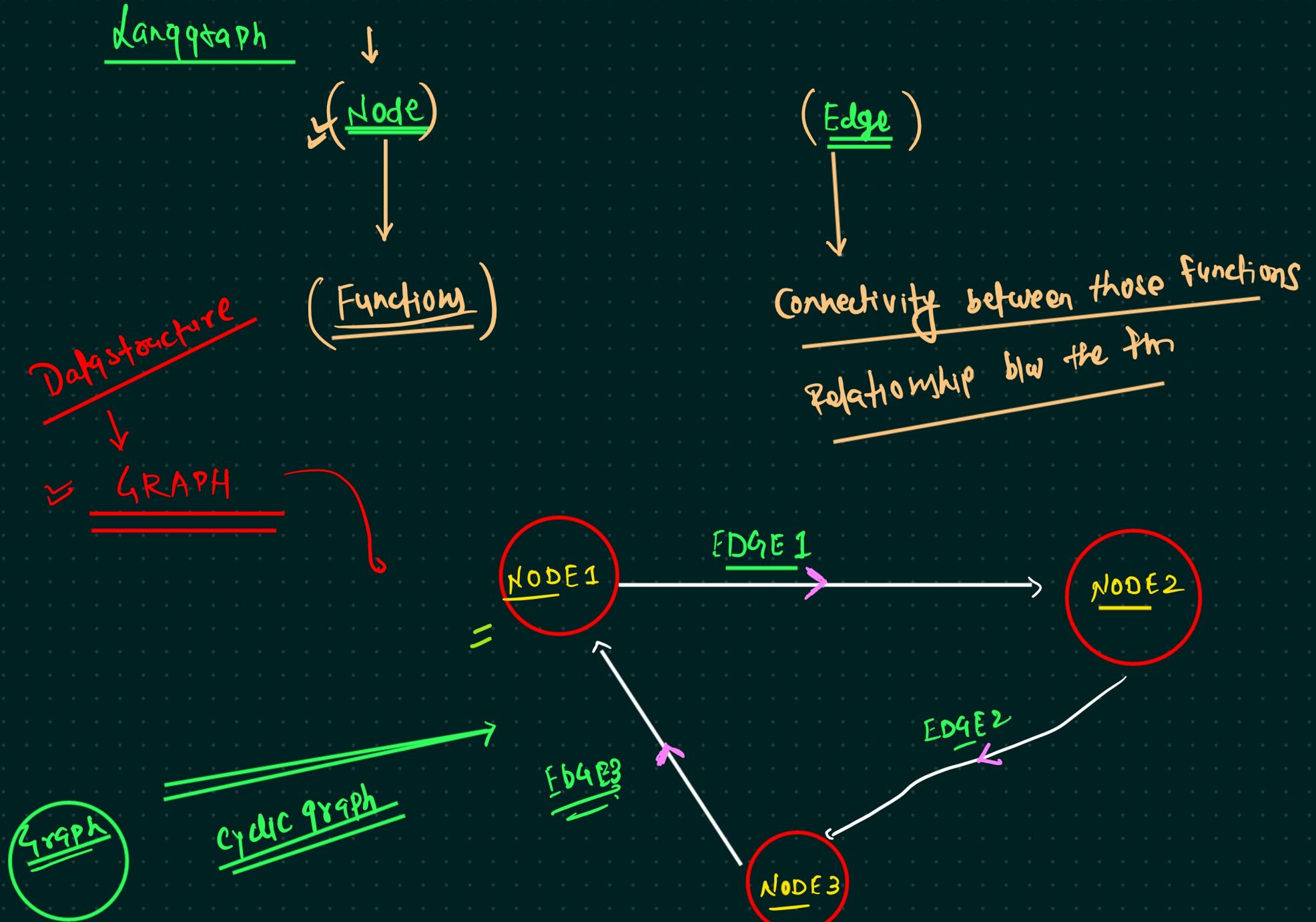
Question → { You got a mail → Write a reply for that mail
→ send it to appropriate person

LLM → think → (Write a mail) ✓
(Send the mail) X

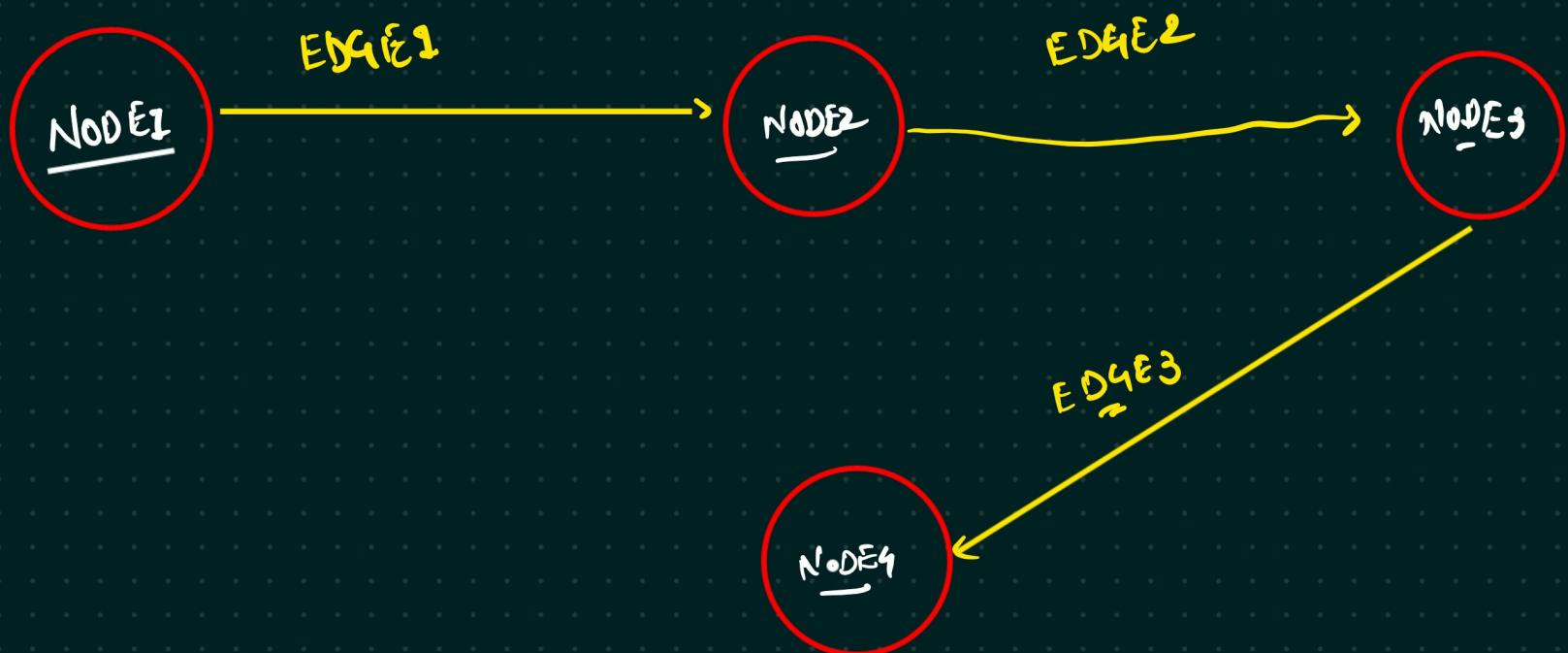
custom tool

Action ⇒ Tool calling ⇒

API (Gmail, Outlook API)



Graph \rightarrow Acyclic graph



Graph \Rightarrow Cyclic or Acyclic
Circular
not circular

\Downarrow

NODE + EDGE

Lang graph \Rightarrow NODE + EDGE

Functions

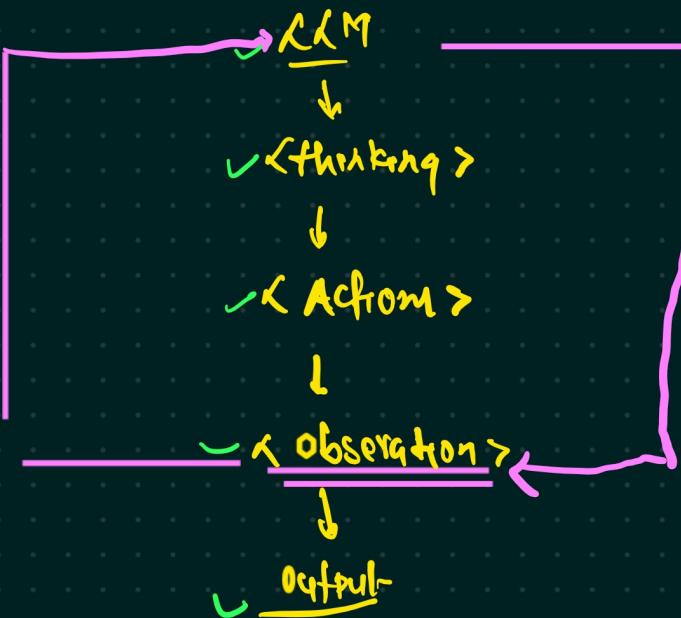
Relation b/w those fn

Langraph
(Agentic flow)

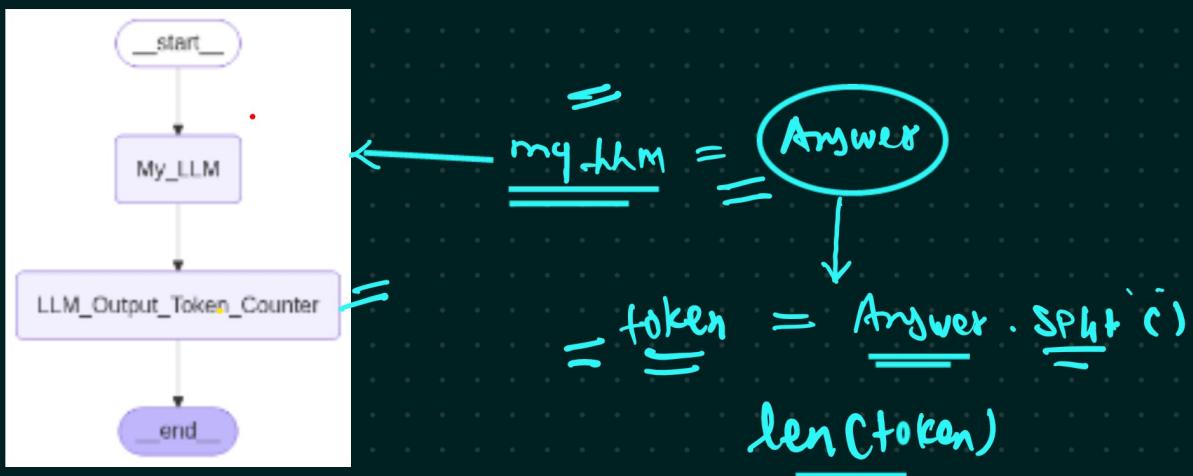
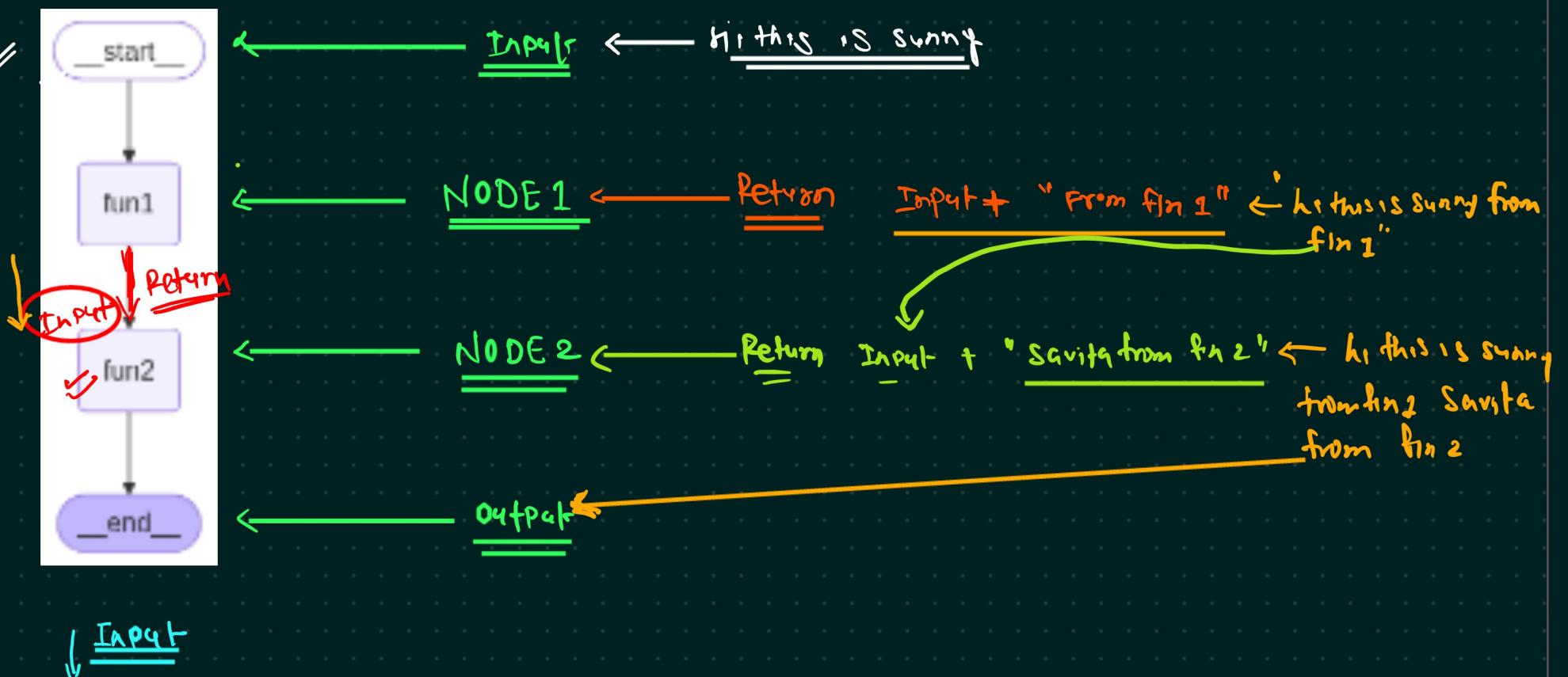
✓ Input

Acyclic

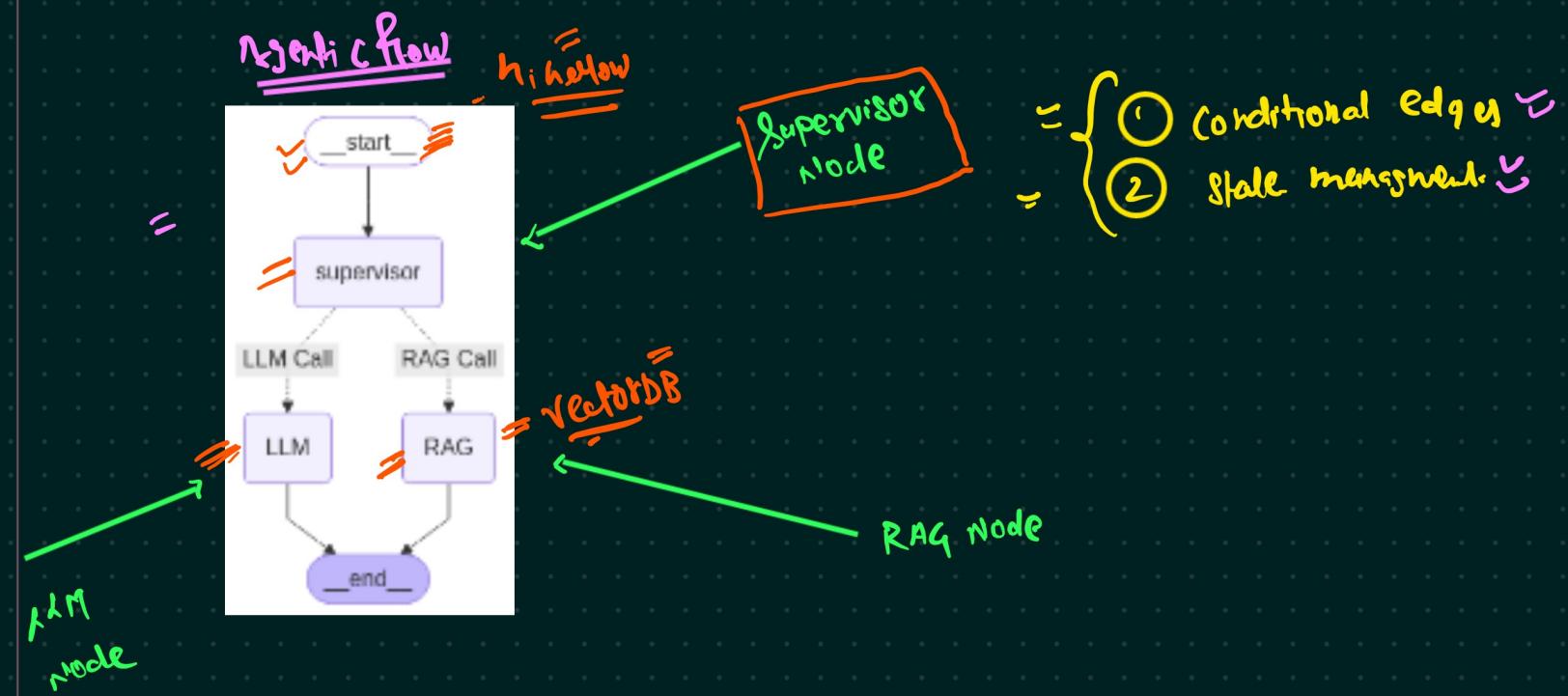
\Rightarrow Graph \Rightarrow Langraph
Node + edges



cyclic

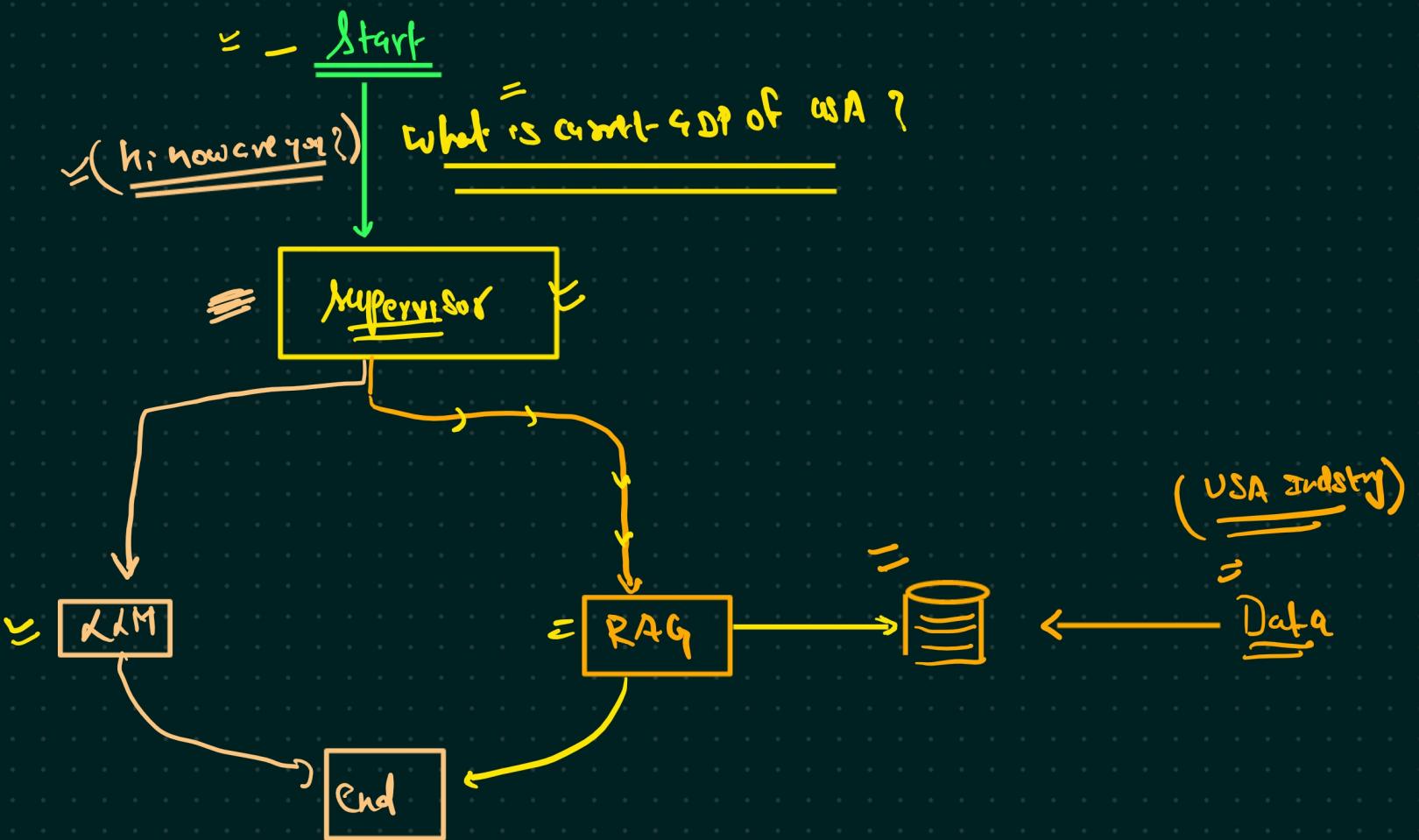


Agentic flow

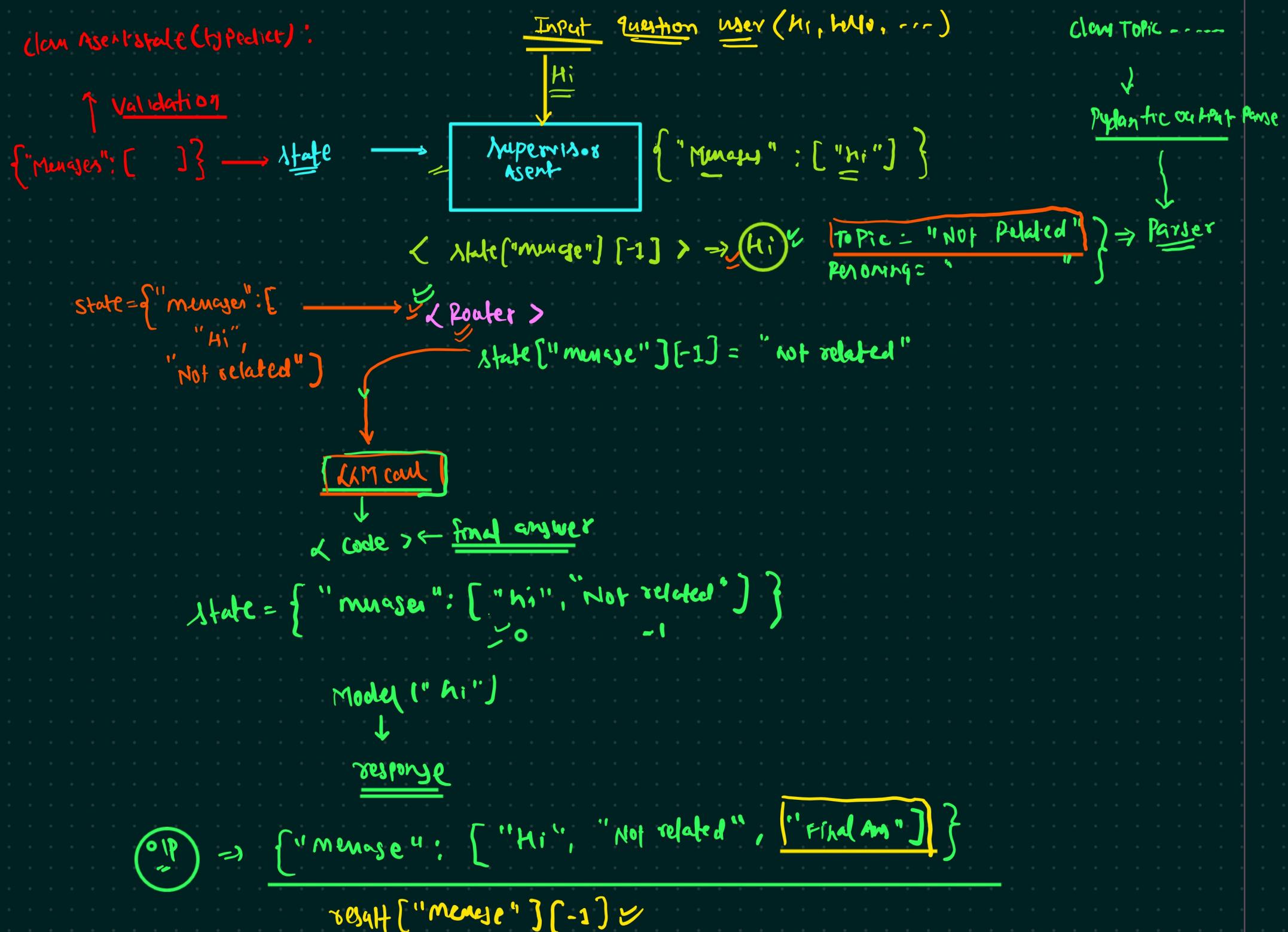


- = {
① Conditional edges ↗
② State management ↗

React → LLM → multiple tool



Claim Assertion (to predict):



{ "merge": ["What is GDP of USA"] }



Supervisor

question → state["merge"][-1]

Topic → "USA"



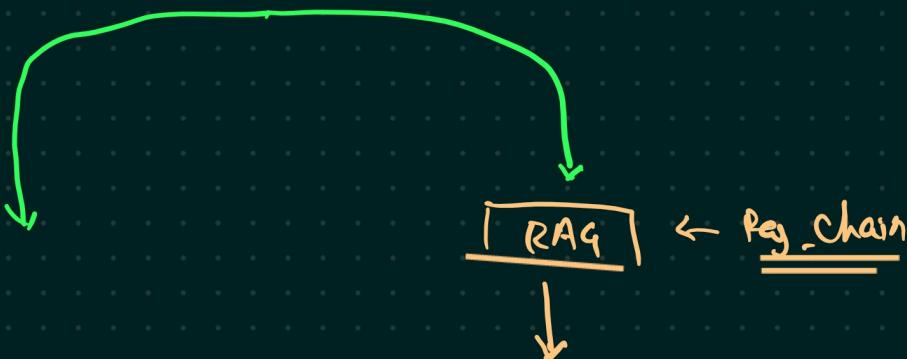
(state = { "merge": ["What is GDP of USA", "USA"] })

outer

return = { "merge": [] }(-1)

if

else



(response)

{ "merge": ["What is GDP of USA", "USA", response] }