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In [1]: import os
        from dotenv import load_dotenv
        from langchain.chat_models import ChatOpenAI
        from langchain.prompts import PromptTemplate
        from langchain.chains import LLMChain
        from langchain.agents import Tool

        # 🗝️ Load API keys
        load_dotenv(dotenv_path=".env")
        openai_api_key = os.getenv("OPENAI_API_KEY")

        # ✦ Initialize the LLM
        llm = ChatOpenAI(model="gpt-3.5-turbo", temperature=0)

        # ✅ Tool 1: Simple QA Tool
        qa_prompt = PromptTemplate.from_template("Answer clearly: {question}")
        qa_chain = LLMChain(llm=llm, prompt=qa_prompt)
        qa_tool = Tool(
            name="Simple QA",
            func=qa_chain.run,
            description="Answer factual questions clearly"
        )

        # ✅ Tool 2: Summarizer Tool
        summary_prompt = PromptTemplate.from_template("Summarize the following text: ")
        summary_chain = LLMChain(llm=llm, prompt=summary_prompt)
        summary_tool = Tool(
            name="Summarizer",
            func=summary_chain.run,
            description="Summarizes input text"
        )

        # 🔧 Tool usage examples
        qa_query = "What is LangGraph in LangChain?"
        summary_text = """
        LangGraph is a library built on top of LangChain that helps developers create
        as graphs. Each node represents a step like calling an LLM or a tool. It's i
        """

        # 🚀 Run tools manually
        print("\n🧠 Simple QA Tool Output:\n", qa_tool.run({"question": qa_query}))
        print("\n📝 Summarizer Tool Output:\n", summary_tool.run({"text": summary_te

```

🧠 Simple QA Tool Output:

LangGraph in LangChain is a graph database that stores and manages language data, including words, phrases, and their relationships. It is a key component of the LangChain platform, allowing for efficient storage and retrieval of language information for various language-related applications.

📝 Summarizer Tool Output:

LangGraph is a library that allows developers to create stateful, multi-step agents as graphs using LangChain. Each node in the graph represents a step, such as calling an LLM or a tool, making it ideal for advanced AI workflows.

In []: