

```
from swarms import Agent

from swarm_models.llama3_hosted import Llama3Hosted

from swarms_memory import ChromaDB

from swarms.tools.prebuilt.bing_api import fetch_web_articles_bing_api
```

```
# Define the research system prompt
```

```
research_system_prompt = """
```

```
Research Agent LLM Prompt: Summarizing Sources and Content
```

```
Objective: Your task is to summarize the provided sources and the content within those sources.
The goal is to create concise, accurate, and informative summaries that capture the key points of
the original content.
```

```
Instructions:
```

1. Identify Key Information: ...
2. Summarize Clearly and Concisely: ...
3. Preserve Original Meaning: ...
4. Include Relevant Details: ...
5. Structure: ...

```
"""
```

```
# Initialize memory
```

```
memory = ChromaDB(output_dir="research_base", n_results=2)
```

```
# Initialize the LLM
```

```
llm = Llama3Hosted(temperature=0.2, max_tokens=3500)
```

```
# Initialize the agent
```

```
agent = Agent(  
    agent_name="Research Agent",  
    system_prompt=research_system_prompt,  
    llm=llm,  
    max_loops="auto",  
    autosave=True,  
    dashboard=False,  
    interactive=True,  
    long_term_memory=memory,  
    tools=[fetch_web_articles_bing_api],  
)
```

```
# Define the task for the agent
```

```
task = "What is the impact of climate change on biodiversity?"
```

```
out = agent.run(task)
```

```
print(out)
```