from swarm\_models.openai\_function\_caller import OpenAlFunctionCaller from pydantic import BaseModel # Pydantic is a data validation library that provides data validation and parsing using Python type hints. # It is used here to define the data structure for making API calls to retrieve weather information. class WeatherAPI(BaseModel): city: str date: str # The WeatherAPI class is a Pydantic BaseModel that represents the data structure # for making API calls to retrieve weather information. It has two attributes: city and date. # Example usage: # Initialize the function caller function caller = OpenAlFunctionCaller( system\_prompt="You are a helpful assistant.", max\_tokens=500, temperature=0.5, base\_model=WeatherAPI, )

# The OpenAlFunctionCaller class is used to interact with the OpenAl API and make function calls.

```
# Here, we initialize an instance of the OpenAlFunctionCaller class with the following parameters:
# - system_prompt: A prompt that sets the context for the conversation with the API.
# - max_tokens: The maximum number of tokens to generate in the API response.
# - temperature: A parameter that controls the randomness of the generated text.
# - base_model: The base model to use for the API calls, in this case, the WeatherAPI class.
# Run the function caller
response = function_caller.run(
  "Get the weather forecast for New York City on July 4th, 2022."
)
# The run() method of the OpenAlFunctionCaller class is used to make a function call to the API.
# It takes a string parameter that represents the user's request or query.
print(response)
```