```python
from typing import Annotated

from swarms import create_openai_tool

from openai import OpenAI


# Create an instance of the OpenAI client

client = OpenAI()


# Define the user messages for the chat conversation

messages = [

    {

        "role": "user",

        "content": "What's the weather like in San Francisco, Tokyo, and Paris?",

    }

]


# Define the BMI calculator tool using the create_openai_tool decorator

@create_openai_tool(

    name="BMI Calculator",

    description="Calculate the Body Mass Index (BMI)",

)

def calculate_bmi(

    weight: Annotated[float, "Weight in kilograms"],

    height: Annotated[float, "Height in meters"],

) -> Annotated[float, "Body Mass Index"]:

    """Calculate the Body Mass Index (BMI) given a person's weight and height."""
```

```python
    return weight / (height**2)


# Create a chat completion request using the OpenAI client
response = client.chat.completions.create(

    model="gpt-3.5-turbo-0125",

    messages=messages,

    tools=calculate_bmi,

    tool_choice="auto",  # auto is default, but we'll be explicit

)


# Print the generated response from the chat completion
print(response.choices[0].message["content"])
```