

```
import os

from swarms import Agent

from swarm_models import OpenAIChat

from swarms.prompts.finance_agent_sys_prompt import (
    FINANCIAL_AGENT_SYS_PROMPT,
)

from swarms.structs.swarming_architectures import (
    circular_swarm,
)

# Get the OpenAI API key from the environment variable

api_key = os.getenv("OPENAI_API_KEY")

# Create an instance of the OpenAIChat class

model = OpenAIChat(
    api_key=api_key, model_name="gpt-4o-mini", temperature=0.1
)

# Initialize the agents

financial_agent1 = Agent(
    agent_name="Financial-Analysis-Agent1",
    system_prompt=FINANCIAL_AGENT_SYS_PROMPT,
    llm=model,
    max_loops=1,
    autosave=True,
    dashboard=False,
```

```
verbose=True,  
streaming_on=True,  
dynamic_temperature_enabled=True,  
saved_state_path="finance_agent1.json",  
user_name="swarms_corp",  
retry_attempts=3,  
context_length=200000,  
)
```

```
financial_agent2 = Agent(  
    agent_name="Financial-Analysis-Agent2",  
    system_prompt=FINANCIAL_AGENT_SYS_PROMPT,  
    llm=model,  
    max_loops=1,  
    autosave=True,  
    dashboard=False,  
    verbose=True,  
    streaming_on=True,  
    dynamic_temperature_enabled=True,  
    saved_state_path="finance_agent2.json",  
    user_name="swarms_corp",  
    retry_attempts=3,  
    context_length=200000,  
)
```

```
financial_agent3 = Agent(  
    agent_name="Financial-Analysis-Agent3",  
    system_prompt=FINANCIAL_AGENT_SYS_PROMPT,  
    llm=model,  
    max_loops=1,  
    autosave=True,  
    dashboard=False,  
    verbose=True,  
    streaming_on=True,  
    dynamic_temperature_enabled=True,  
    saved_state_path="finance_agent3.json",  
    user_name="swarms_corp",  
    retry_attempts=3,  
    context_length=200000,  
)
```

```
agent_name="Financial-Analysis-Agent3",  
system_prompt=FINANCIAL_AGENT_SYS_PROMPT,  
llm=model,  
max_loops=1,  
autosave=True,  
dashboard=False,  
verbose=True,  
streaming_on=True,  
dynamic_temperature_enabled=True,  
saved_state_path="finance_agent3.json",  
user_name="swarms_corp",  
retry_attempts=3,  
context_length=200000,  
)
```

```
financial_agent4 = Agent(  
    agent_name="Financial-Analysis-Agent4",  
    system_prompt=FINANCIAL_AGENT_SYS_PROMPT,  
    llm=model,  
    max_loops=1,  
    autosave=True,  
    dashboard=False,  
    verbose=True,  
    streaming_on=True,  
    dynamic_temperature_enabled=True,  
    saved_state_path="finance_agent4.json",
```

```
user_name="swarms_corp",

retry_attempts=3,

context_length=200000,

)


# Agents

agents = [

    financial_agent1,

    financial_agent2,

    financial_agent3,

    financial_agent4,

]

task = [

    "How can I establish a ROTH IRA to buy stocks and get a tax break? What are the criteria"

    "What's the best platform to setup a trust?"

    "How can I get a loan to start a business?",

]


# Run the agents in a circular swarm

response = circular_swarm(

    agents=agents, tasks=task, return_full_history=True

)

print(response)
```