```
from swarms import Agent
from swarm_models import OpenAlChat
from examples.structs.swarms.experimental.dfs_search_swarm import (
  DFSSwarm,
)
# Get the OpenAl API key from the environment variable
api_key = os.getenv("OPENAI_API_KEY")
# Create an instance of the OpenAlChat class for each agent
model = OpenAlChat(
  api_key=api_key, model_name="gpt-4o-mini", temperature=0.1
)
# Initialize multiple agents
agent1 = Agent(
  agent_name="Agent-1",
  system_prompt="Analyze the financial components of a startup's stock incentives.",
  Ilm=model,
  # max_loops=2,
  # autosave=True,
  dynamic_temperature_enabled=True,
  verbose=True,
  streaming_on=True,
```

```
user_name="swarms_corp",
)
agent2 = Agent(
  agent_name="Agent-2",
  system_prompt="Refine the analysis and identify any potential risks or benefits.",
  Ilm=model,
  # max_loops=2,
  # autosave=True,
  dynamic_temperature_enabled=True,
  verbose=True,
  streaming_on=True,
  user_name="swarms_corp",
)
# Add more agents as needed
# agent3 = ...
# agent4 = ...
# Create the swarm with the agents
dfs_swarm = DFSSwarm(agents=[agent1, agent2])
# Run the DFS swarm on a task
result = dfs_swarm.run(
  "Start with analyzing the financial components of a startup's stock incentives."
)
```

print("Final Result:", result)