

```
import os
```

```
from dotenv import load_dotenv
```

```
from swarm_models.gpt4_vision_api import GPT4VisionAPI
```

```
from swarms.prompts.visual_cot import VISUAL_CHAIN_OF_THOUGHT
```

```
from swarms.structs import Agent
```

```
# Load the environment variables
```

```
load_dotenv()
```

```
# Get the API key from the environment
```

```
api_key = os.environ.get("OPENAI_API_KEY")
```

```
# Initialize the language model
```

```
llm = GPT4VisionAPI(
```

```
    openai_api_key=api_key,
```

```
    max_tokens=500,
```

```
)
```

```
# Initialize the task
```

```
task = "This is an eye test. What do you see?"
```

```
img = "examples/demos/multi_modal_chain_of_thought/eyetest.jpg"
```

```
## Initialize the workflow
```

```
agent = Agent(
```

```
llm=llm,  
max_loops=2,  
autosave=True,  
sop=VISUAL_CHAIN_OF_THOUGHT,  
)
```

```
# Run the workflow on a task
```

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

```
print(out)
```