1.1.5 Emotional Perception with Large Language Model

To proceed with this section, ensure that you have completed the API key configuration as described in the file 1.3 Large Language Model Accessing.

In this lesson, we will use a large language model to assess its ability to perceive emotions based on descriptive words. We'll provide the model with emotional expressions and evaluate its response.

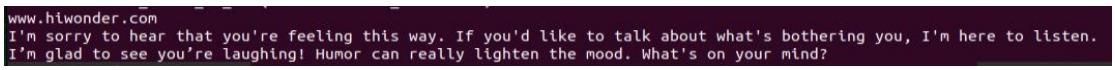
1) Start by opening a new terminal window, then navigate to the large model project directory:

```
cd large_models/
```

2) Next, run the demo program with the following command:

```
python3 openai_llm_er_demo.py
```

3) From the output, you will see that the model successfully identifies and understands the emotions conveyed, providing a text-based response accordingly.



4) In this program, we send two emotional expressions to the model: the first is an expression of sadness, "So Sad." After the model responds, we then send an expression of happiness, "Ha Ha," and observe how the model reacts.

```
from config import *
from speech import speech

client = speech.OpenAIAPI(llm_api_key, llm_base_url)

messages = [{"role": "user", "content": 'So sad'}]
assistant_output = client.llm_multi_turn(messages, model='gpt-4o-mini')
print(assistant_output)

messages.append({"role": "assistant", "content": assistant_output})

messages.append({"role": "user", "content": 'Ha ha'})
assistant_output = client.llm_multi_turn(messages, model='gpt-4o-mini')
print(assistant_output)
```