

AI Encyclopedia-Problem Solving Expert

Before running the function, you need to close the App and large programs. For the closing method, refer to [4. Preparation] - [1. Manage APP control services].

1. Function Description

After the program starts, ask the large model for the answer to a question. After thinking, the large model will reply with the answer to the question, and the program will control the robotic arm to point to that answer.

2. Startup

Taking the text version as an example, users with Jetson-Nano mainboard version need to enter the docker container first and then input the following command. Users with Orin mainboard can directly open the terminal and input the following command:

```
ros2 launch largemodel largemodel_control.launch.py text_chat_mode:=True
```

Then open a second terminal and input the following command:

```
ros2 run text_chat text_chat
```

Then input "What is the correct answer to this question?" in the text_chat terminal and press Enter; if it's the voice version, wake up the voice module and directly say to the voice module "What is the correct answer to this question?", then wait for the large model to think and reply, as shown in the figure below:

```
jetson@yahboom:/Desktop$ ros2 run text_chat text_chat
user input: 这道题目的正确答案是什么？
okay 😊, let me think for a moment... [INFO] [1764208749.889948517] [text_chat_node]: 决策后AI规划:
严格执行以下步骤执行, 每次只能输出一个动作函数:
1. 调用 `seewhat()` 函数查看题目。
2. 先回复题目的结果。
3. 在桌面上找出题目答案选项。
4. 调用 `point_to(x1, y1, x2, y2)` 函数指向该答案选项 (其中 `x1, y1, x2, y2` 为该答案选项位置的相关坐标参数)。
**任务步骤:** *
- 第一步: `seewhat()`
user input: [INFO] [1764208752.386811233] [text_chat_node]: "action": ["seewhat()"], "response": 好呀
让我看看这道题目是什么~
[INFO] [1764208759.323807080] [text_chat_node]: "action": ["point_to(370, 295, 485, 335)"], "response": "
- 这道题的正确答案是B. 春天顺, 当然要温暖又舒服啦~"
[INFO] [1764208779.494690783] [text_chat_node]: "action": ["finishtask()"], "response": 我已经指向正确
答案啦, 春天就是暖和的季节呀~
```

Then the robotic arm will point to answer B:



The question is:

which of the following words can be used to describe spring ()

- A. Hot
- B. Warm
- C. Cold
- D. Cool

3. Task Planning

1. Call seehat() to check the question;
2. Reply with the answer to the question;
3. Find the answer option on the desktop;
4. Call the point_to() function to point to that answer option