

WizardLM-2

WizardLM-2

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Demonstration environment

Development board: rdk x5 motherboard

sd card: 64G

Tutorial application scope: Whether the motherboard can run is related to the available memory of the system. The user's own environment and the program running in the background may cause the model to fail to run.

Board model	Ollama
rdk x5 8GB	√
rdk x5 4GB	×

WizardLM-2 is Microsoft's latest advanced large-scale language model, which improves performance in complex dialogue, multi-language, reasoning, and intelligent agent capabilities.

1. Model scale

Model	Parameter
WizardLM-2	7B

2. Pull WizardLM-2

Pull the following parameter models for the RDK X5 8Gb motherboard

Using the pull command will automatically pull the model from the Ollama model library:

```
ollama pull wizardlm2:7b
```

```
Terminal - sunrise@ubuntu: ~
File Edit View Terminal Tabs Help
sunrise@ubuntu:~$ ollama pull wizardlm2:7b
pulling manifest
pulling 431800fe7a30... 100% 4.1 GB
pulling 43070e2d4e53... 100% 11 KB
pulling 245f91e42bbb... 100% 110 B
pulling 1fa69e2371b7... 100% 154 B
pulling f4c99b0ffe2c... 100% 32 B
pulling cdf118eda510... 100% 557 B
verifying sha256 digest
writing manifest
success
sunrise@ubuntu:~$
```

3. Use WizardLM-2

3.1. Run WizardLM-2

If the system does not have a running model, the system will automatically pull the WizardLM-2 7B model and run it:

```
ollama run wizardlm2:7b
```

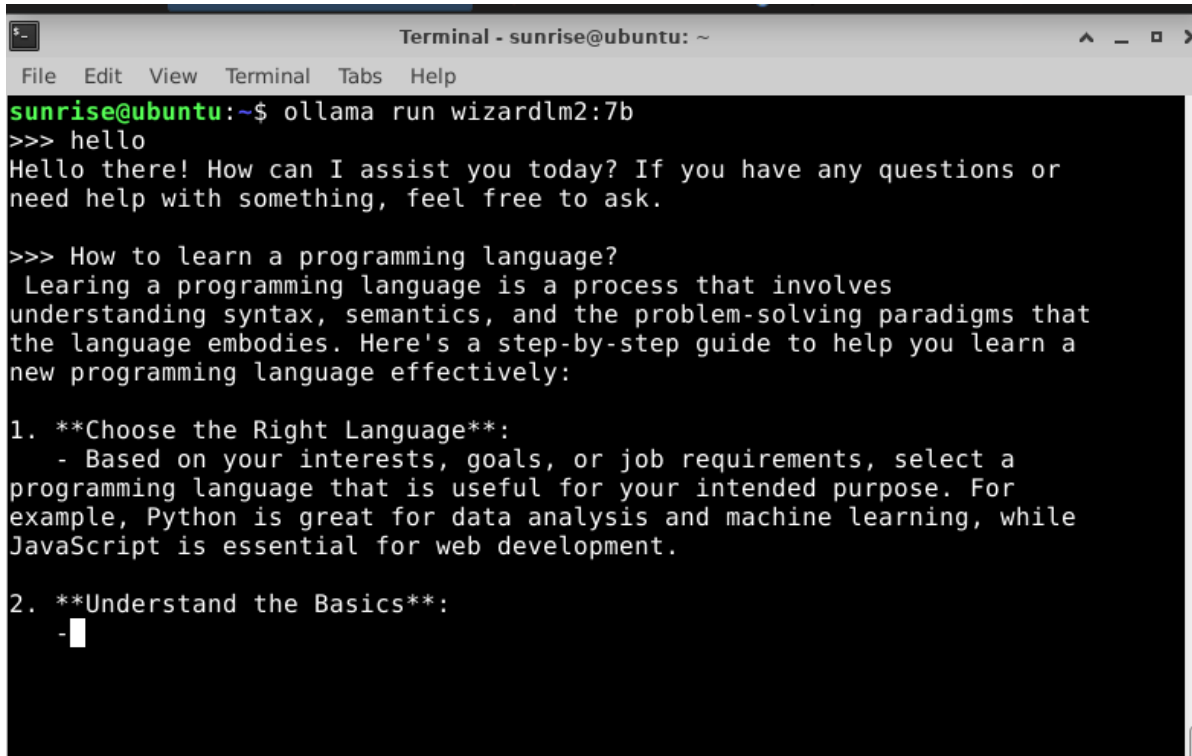
```
Terminal - sunrise@ubuntu: ~
File Edit View Terminal Tabs Help
sunrise@ubuntu:~$ ollama run wizardlm2:7b
->> Send a message (/? for help)
```

3.2. Have a conversation

How to learn a programming language?

The time required to reply to the question depends on the hardware configuration, please be patient!

Requires **RDk X5 8Gb** board to run.

A terminal window titled "Terminal - sunrise@ubuntu: ~" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The prompt is "sunrise@ubuntu:~\$". The user enters "ollama run wizardlm2:7b". The prompt changes to ">>>". The user enters "hello". The model responds: "Hello there! How can I assist you today? If you have any questions or need help with something, feel free to ask." The user enters "How to learn a programming language?". The model responds: "Learning a programming language is a process that involves understanding syntax, semantics, and the problem-solving paradigms that the language embodies. Here's a step-by-step guide to help you learn a new programming language effectively:" followed by a numbered list. The list item "1. **Choose the Right Language**:" is followed by a bullet point: "- Based on your interests, goals, or job requirements, select a programming language that is useful for your intended purpose. For example, Python is great for data analysis and machine learning, while JavaScript is essential for web development." The next list item "2. **Understand the Basics**:" is followed by a bullet point and a cursor: "- █".

```
Terminal - sunrise@ubuntu: ~
File Edit View Terminal Tabs Help
sunrise@ubuntu:~$ ollama run wizardlm2:7b
>>> hello
Hello there! How can I assist you today? If you have any questions or
need help with something, feel free to ask.

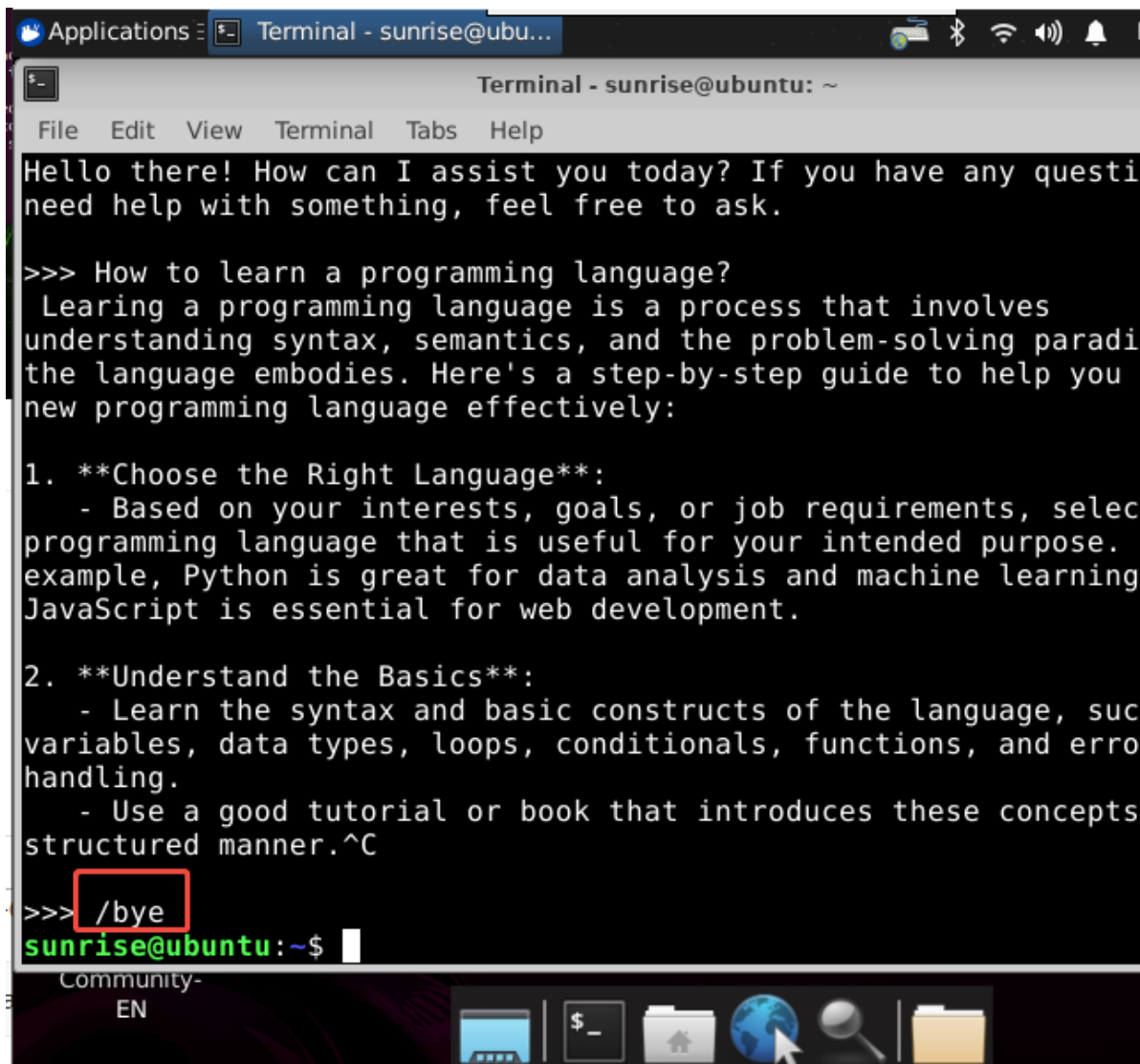
>>> How to learn a programming language?
Learning a programming language is a process that involves
understanding syntax, semantics, and the problem-solving paradigms that
the language embodies. Here's a step-by-step guide to help you learn a
new programming language effectively:

1. **Choose the Right Language**:
  - Based on your interests, goals, or job requirements, select a
  programming language that is useful for your intended purpose. For
  example, Python is great for data analysis and machine learning, while
  JavaScript is essential for web development.

2. **Understand the Basics**:
  - █
```

3.3. End the conversation

Use the `Ctrl+d` shortcut key or `/bye` to end the conversation!



```
Applications ▢ Terminal - sunrise@ubu...  
Terminal - sunrise@ubuntu: ~  
File Edit View Terminal Tabs Help  
Hello there! How can I assist you today? If you have any question, please  
need help with something, feel free to ask.  
  
>>> How to learn a programming language?  
Learning a programming language is a process that involves understanding  
syntax, semantics, and the problem-solving paradigm the language embodies.  
Here's a step-by-step guide to help you learn a new programming language  
effectively:  
  
1. **Choose the Right Language**:  
- Based on your interests, goals, or job requirements, select a  
programming language that is useful for your intended purpose. For  
example, Python is great for data analysis and machine learning, while  
JavaScript is essential for web development.  
  
2. **Understand the Basics**:  
- Learn the syntax and basic constructs of the language, such as  
variables, data types, loops, conditionals, functions, and error  
handling.  
- Use a good tutorial or book that introduces these concepts in a  
structured manner.  
  
>>> /bye  
sunrise@ubuntu:~$
```

References

Ollama

Website: <https://ollama.com/>

GitHub: <https://github.com/ollama/ollama>

WizardLM-2

Ollama model: <https://ollama.com/library/wizardlm2>