

# WizardLM-2

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## Demonstration environment

### Development Board : Raspberry Pi 5B

**SD(TF)card**: 64G (Above 16G, the larger the capacity, the more models can be experienced)

```
Raspberry Pi 5B (8G RAM): Run 8B and below parameter models
Raspberry Pi 5B (4G RAM): Run 3B and below parameter models, can't run wizardLM-2 model
```

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

## Model scale

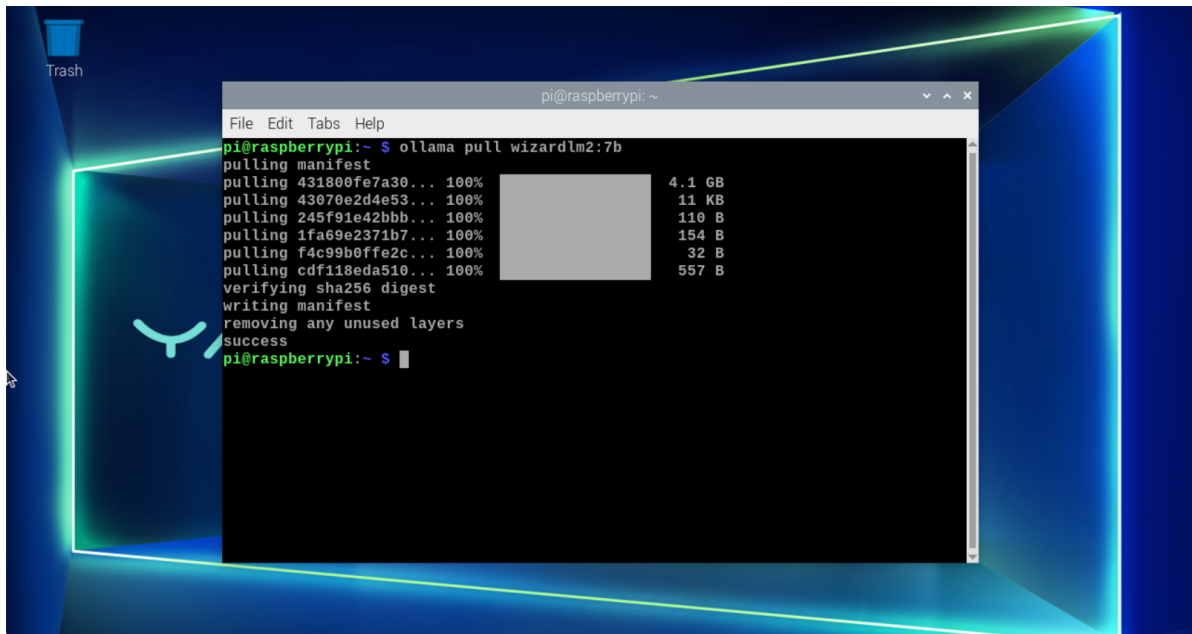
Model	Parameter
WizardLM-2	7B
WizardLM-2	70B
WizardLM-2	8x22B

```
Raspberry Pi 5B (8G RAM): wizardLM-2 model testing with 7B parameters.
```

## Got WizardLM-2

Using the pull command will automatically pull the models from the Ollama model library.

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



## Use WizardLM-2

### Run WizardLM-2

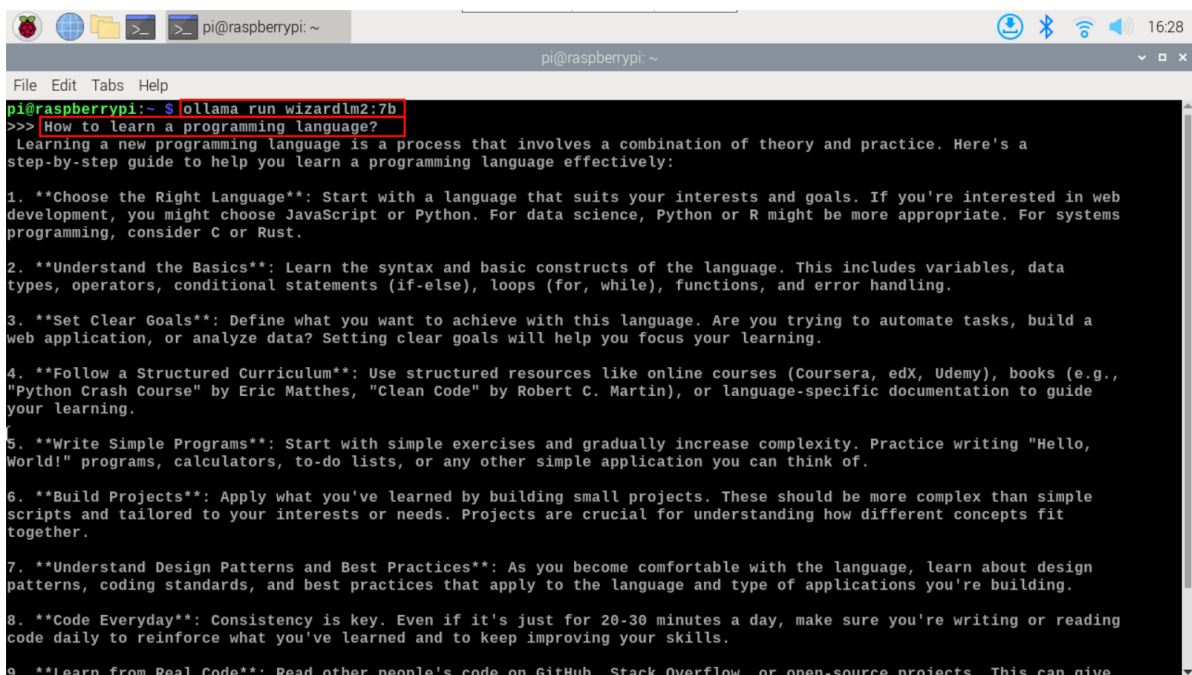
If the system does not have a running model, the system will automatically pull the WizardLM-2 7B model and run it.

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

### Dialogue

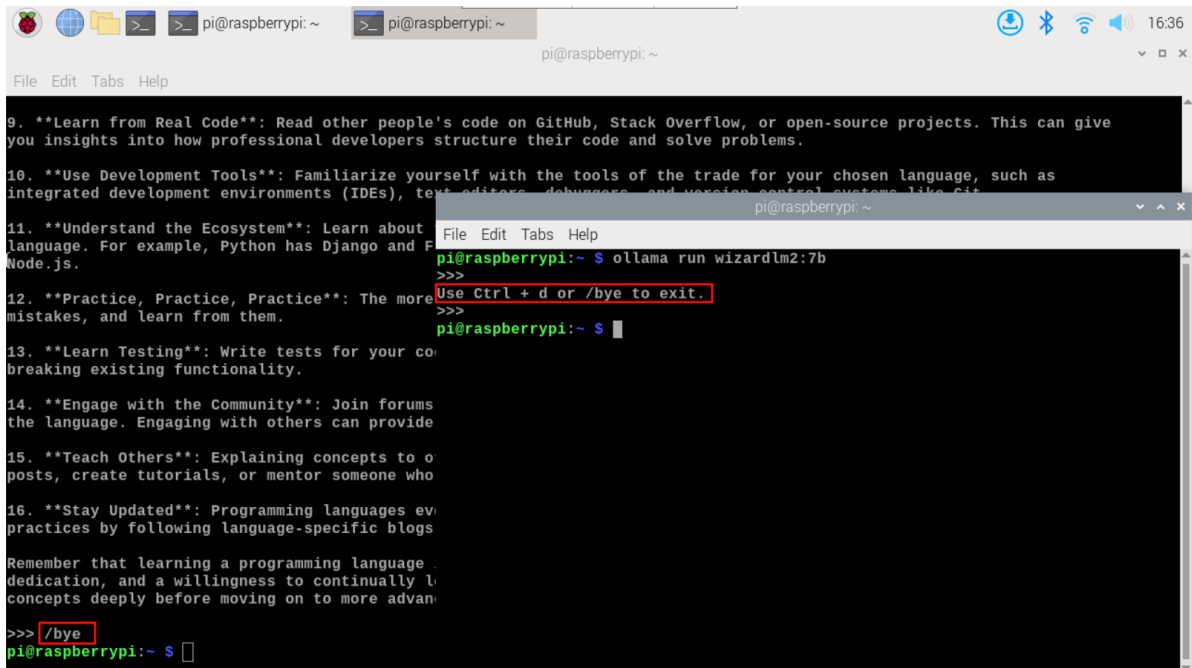
```
How to learn a programming language?
```

The response time to the question is related to the hardware configuration, please be patient and wait.



## End conversation

The response time to the question is related to the hardware configuration, please be patient and wait.



```
pi@raspberrypi: ~  
File Edit Tabs Help  
9. **Learn from Real Code**: Read other people's code on GitHub, Stack Overflow, or open-source projects. This can give you insights into how professional developers structure their code and solve problems.  
10. **Use Development Tools**: Familiarize yourself with the tools of the trade for your chosen language, such as integrated development environments (IDEs), text editors, debuggers, and version control systems like Git.  
11. **Understand the Ecosystem**: Learn about the ecosystem of the language. For example, Python has Django and Flask, and Node.js has Express.js.  
12. **Practice, Practice, Practice**: The more you practice, the more you learn. Don't be afraid to make mistakes, and learn from them.  
13. **Learn Testing**: Write tests for your code to ensure it works as expected and to prevent breaking existing functionality.  
14. **Engage with the Community**: Join forums, chat groups, or local meetups. Engaging with others can provide support, feedback, and new insights.  
15. **Teach Others**: Explaining concepts to others can help you solidify your understanding and identify areas where you need more practice.  
16. **Stay Updated**: Programming languages and technologies evolve rapidly. Stay up-to-date by following language-specific blogs, newsletters, and social media channels.  
Remember that learning a programming language is a journey, not a destination. It requires patience, dedication, and a willingness to continually learn and grow.  
>>> /bye  
pi@raspberrypi:~$
```

```
pi@raspberrypi:~$ ollama run wizardlm2:7b  
>>>  
Use Ctrl + d or /bye to exit.  
>>>  
pi@raspberrypi:~$
```

## Reference material

### Ollama

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

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

### WizardLM-2

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