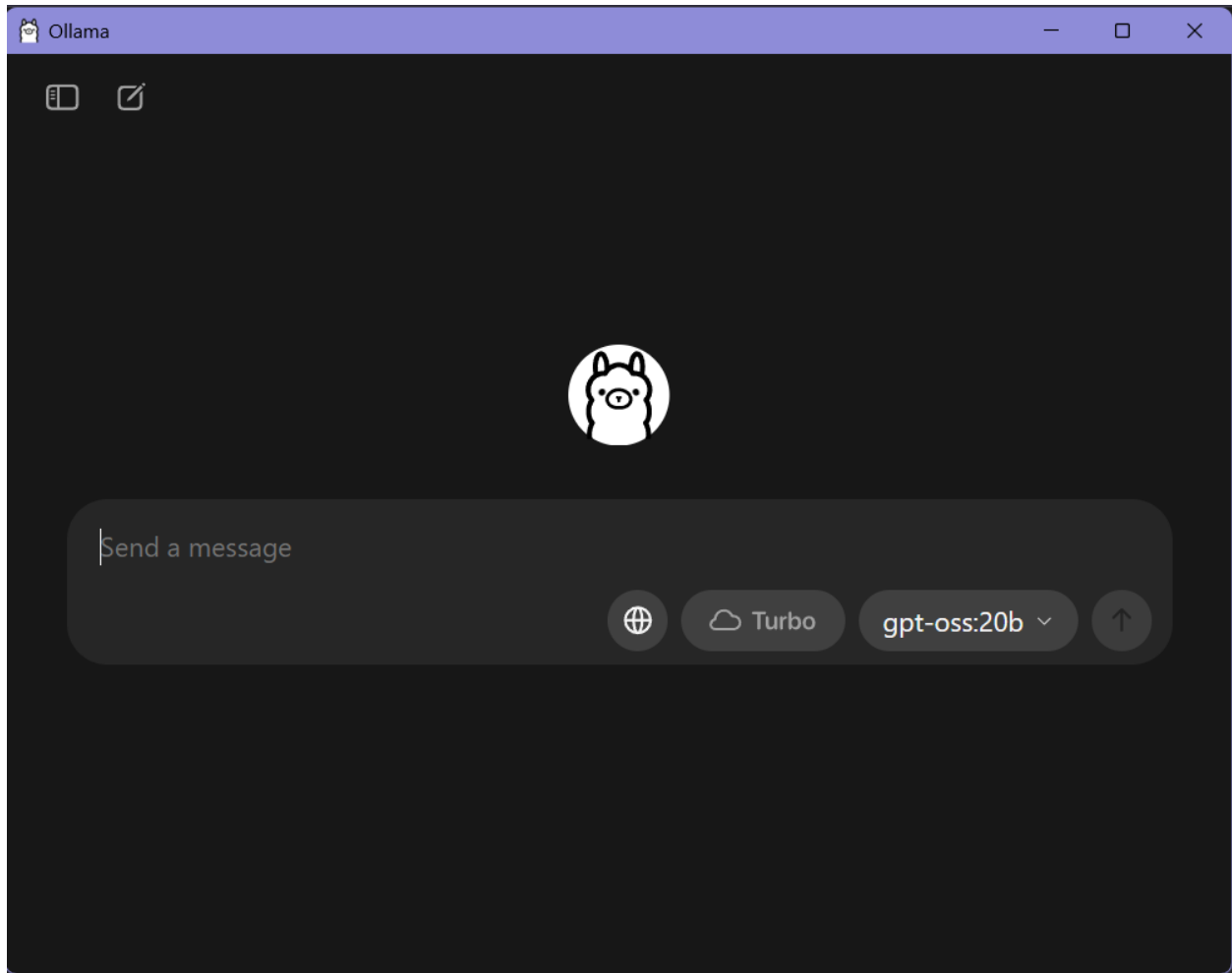


Assignment 2: Local LLM Installation and Testing:

1: Install **Ollama** or any local LLM (e.g., LLaMA 3.2).



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\RICH\> ollama --version
ollama version is 0.11.4
PS C:\Users\RICH\> |
```

Ollama

ollama pull phi3:mini

Thought for 116.4 seconds

`ollama pull phi3:mini` – what it does

When you run this command in a terminal where Ollama is installed, the CLI will:

1. **Connect to Ollama's registry** (the public mirror or your private server if you're using one).
2. **Download the model layers** for the `phi3:mini` package.
 - `phi3:mini` is the lightweight variant of Meta's Phi-3 family – roughly 1.3B parameters (~1–1.5 GB on disk).
3. **Verify the checksum** of the downloaded layers.
4. **Package the layers** into a local Ollama model instance.
5. **Make the model available** for inference via `ollama run phi3:mini`.

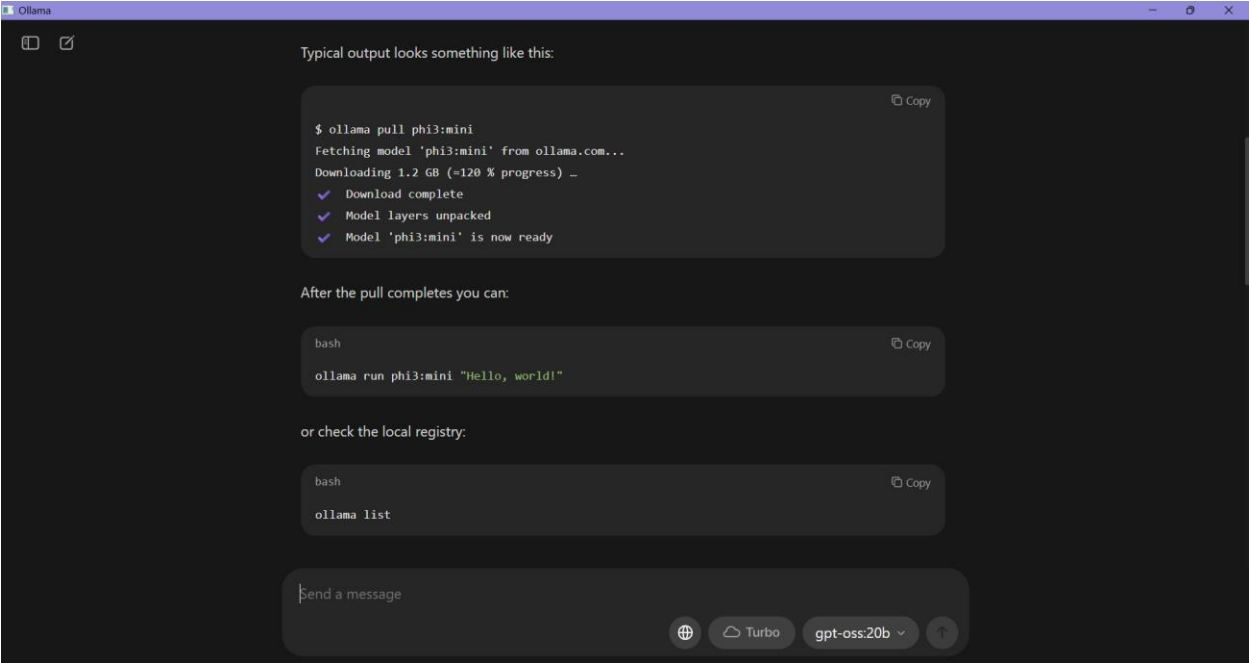
Typical output looks something like this:

```
$ ollama pull phi3:mini
```

Send a message

Copy

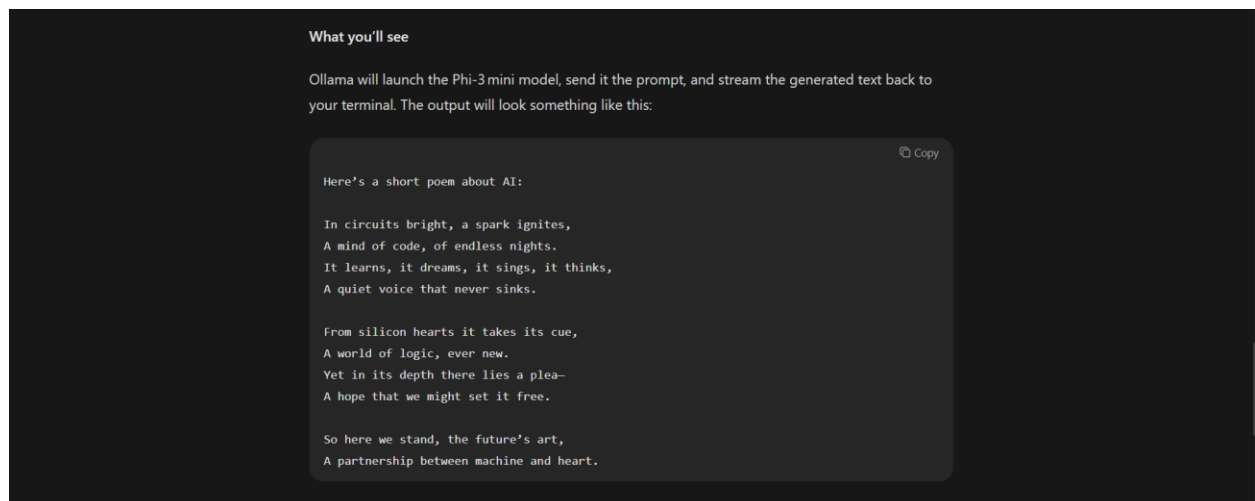
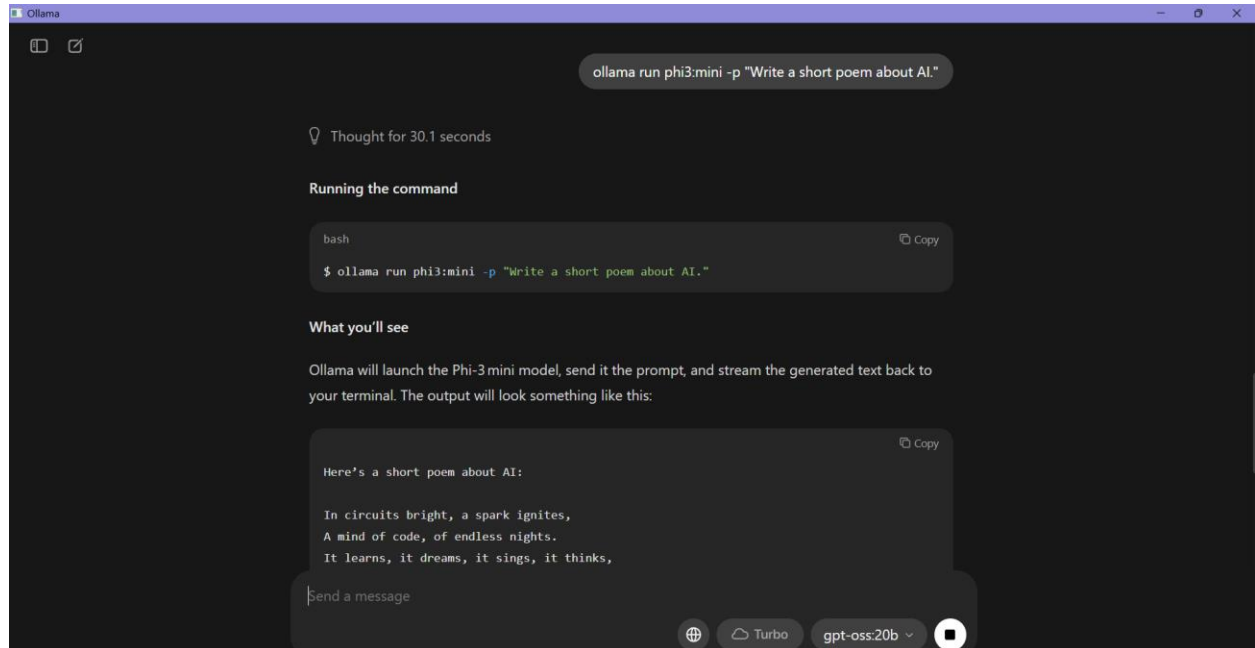
🌐 Turbo gpt-oss:20b ⬆

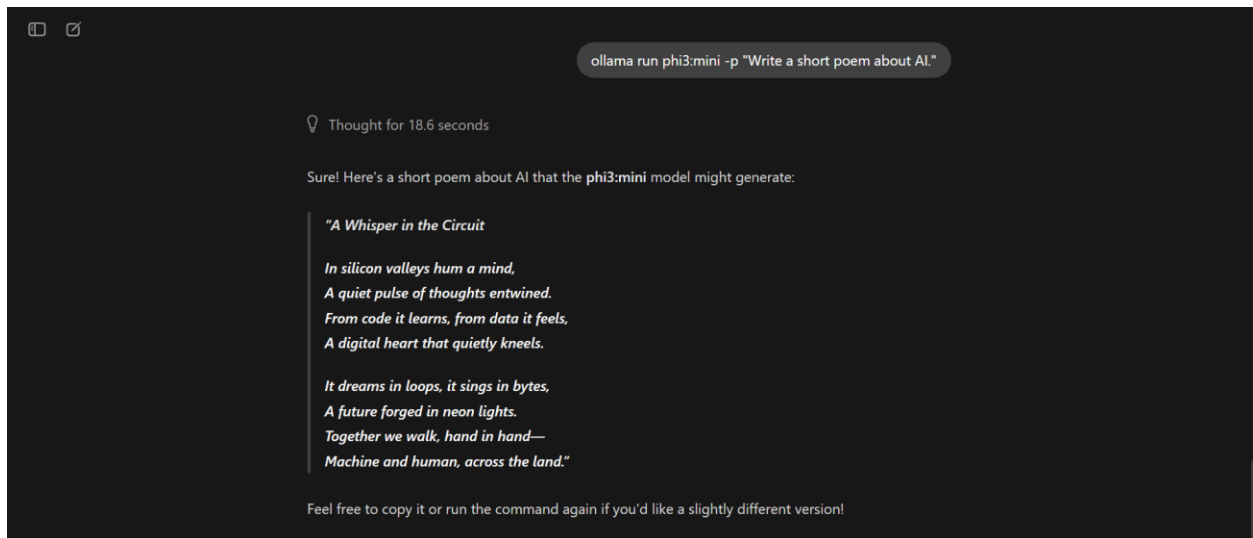


Quick troubleshooting

| Symptom | Likely cause | Fix |
|---------------------------|---|--|
| Command not found | Ollama isn't installed or not in \$PATH | Install Ollama: https://ollama.ai or add its binary to your PATH |
| Download stalls or errors | Unstable internet, firewall blocking ports 11434 or 11435 | Check connectivity, or set up a proxy in <code>~/.ollama/config.json</code> |
| "Not enough disk space" | Your drive is full | Free up space or point Ollama to a larger drive (<code>OLLAMA_ROOT</code> env var) |
| Checksum mismatch | Corrupted download | Delete <code>~/.ollama/models/phi3:mini</code> and run the pull again |

2: Run a simple prompt like: “Write a short poem about AI.”





Installing Ollama was simple and free. The model worked on my laptop without issues and responded in about 4 seconds. Overall, the process was smooth and the output was good.