Day 1: Python Environment Setup & Basic Syntax
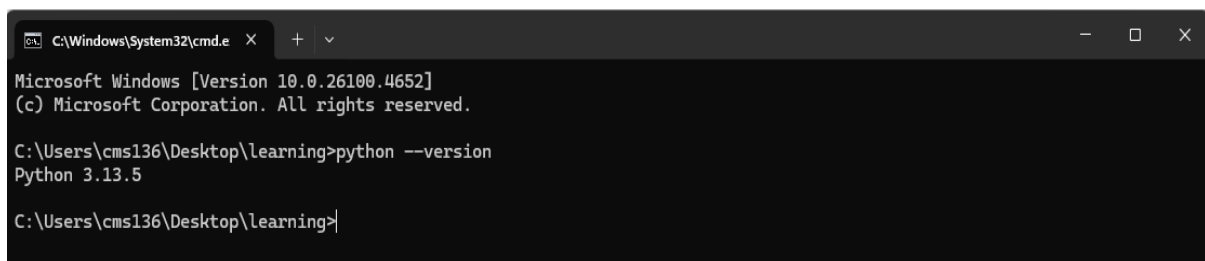
Learning Phase: Environment & Fundamentals

Task 1: Development Environment Setup

- Install Python 3.11+ from python.org
- Install Visual Studio Code with Python extension
- Configure Git and create GitHub account
- Set up virtual environment: `python -m venv training_env`
- Install essential packages: `pip install pytest ipython jupyter`

Deliverable: Screenshot of working Python environment with version check
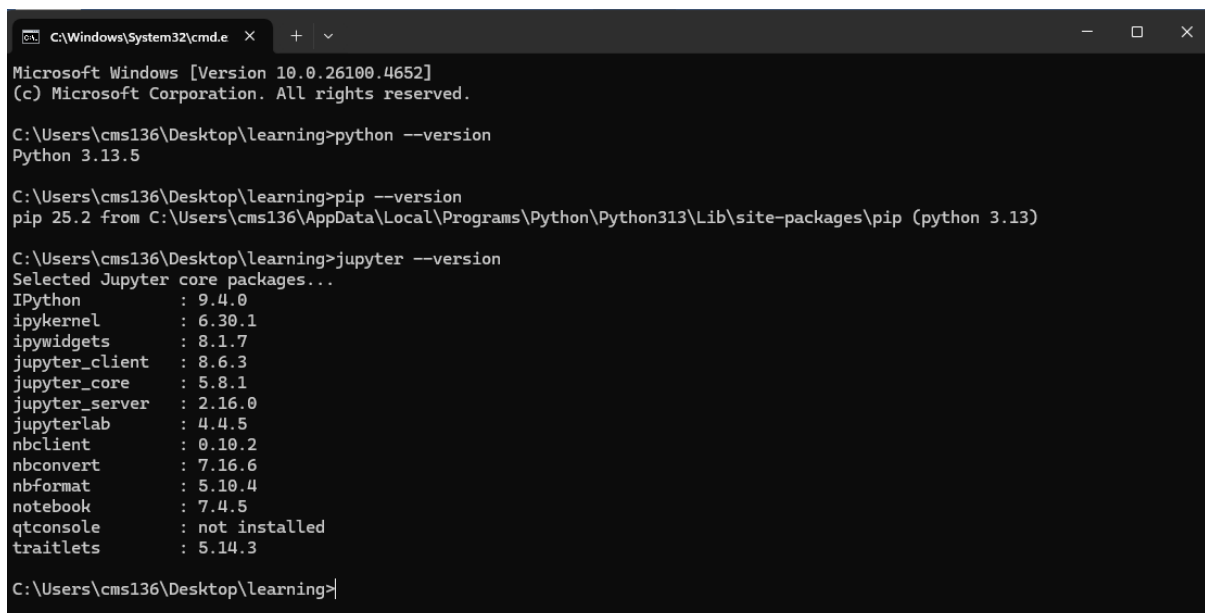
1. Output 1

```
C:\Windows\System32\cmd.e ×    + ∨                                                    –    □    ×

Microsoft Windows [Version 10.0.26100.4652]
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C:\Users\cms136\Desktop\learning>python --version
Python 3.13.5

C:\Users\cms136\Desktop\learning>
```

2. Output 2

```
C:\Windows\System32\cmd.e ×    + ∨                                                    –    □    ×

Microsoft Windows [Version 10.0.26100.4652]
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C:\Users\cms136\Desktop\learning>python --version
Python 3.13.5

C:\Users\cms136\Desktop\learning>pip --version
pip 25.2 from C:\Users\cms136\AppData\Local\Programs\Python\Python313\Lib\site-packages\pip (python 3.13)

C:\Users\cms136\Desktop\learning>jupyter --version
Selected Jupyter core packages...
IPython          : 9.4.0
ipykernel        : 6.30.1
ipywidgets       : 8.1.7
jupyter_client   : 8.6.3
jupyter_core     : 5.8.1
jupyter_server   : 2.16.0
jupyterlab       : 4.4.5
nbclient         : 0.10.2
nbconvert        : 7.16.6
nbformat         : 5.10.4
notebook         : 7.4.5
qtconsole        : not installed
traitlets        : 5.14.3

C:\Users\cms136\Desktop\learning>
```