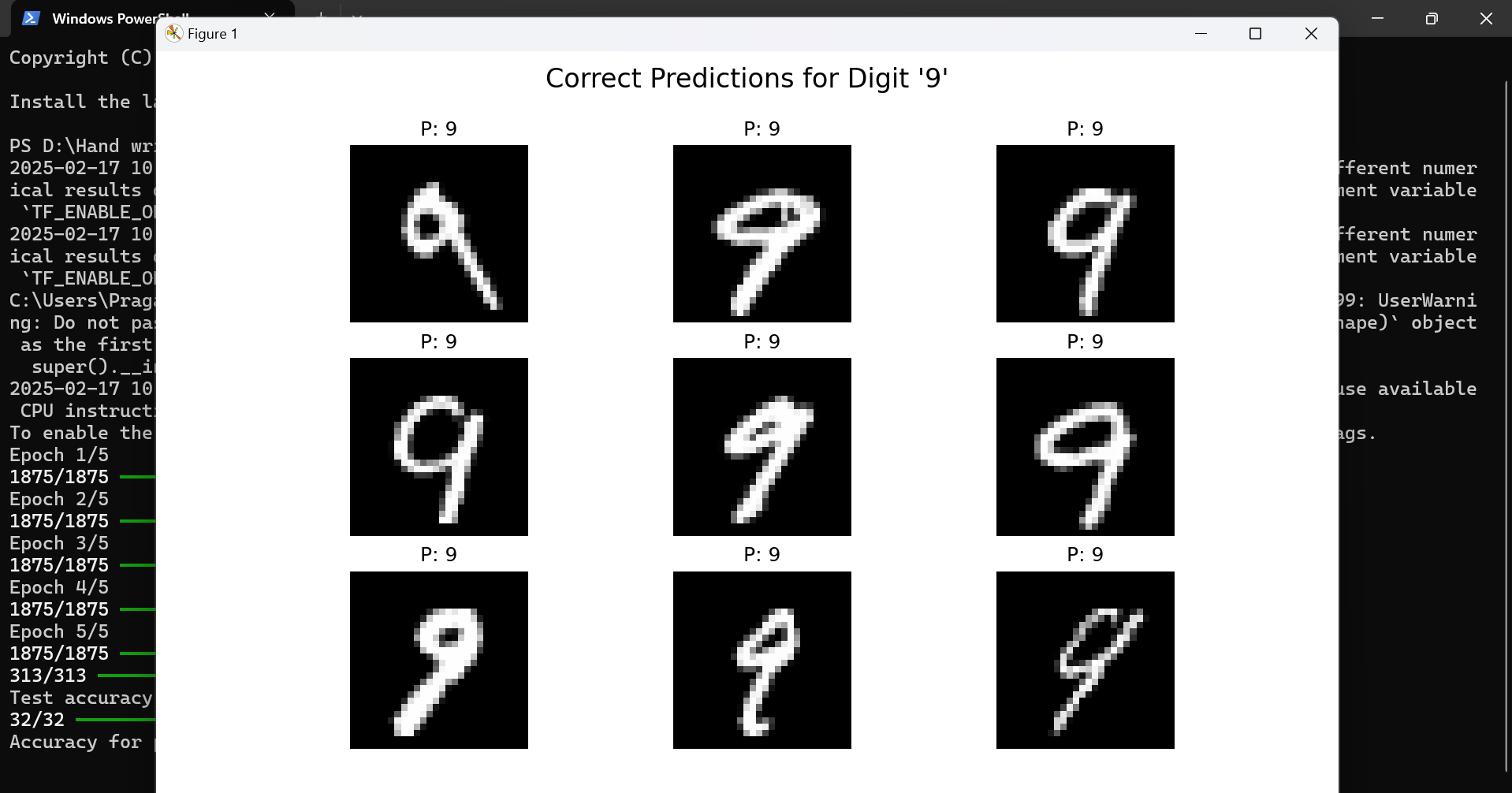
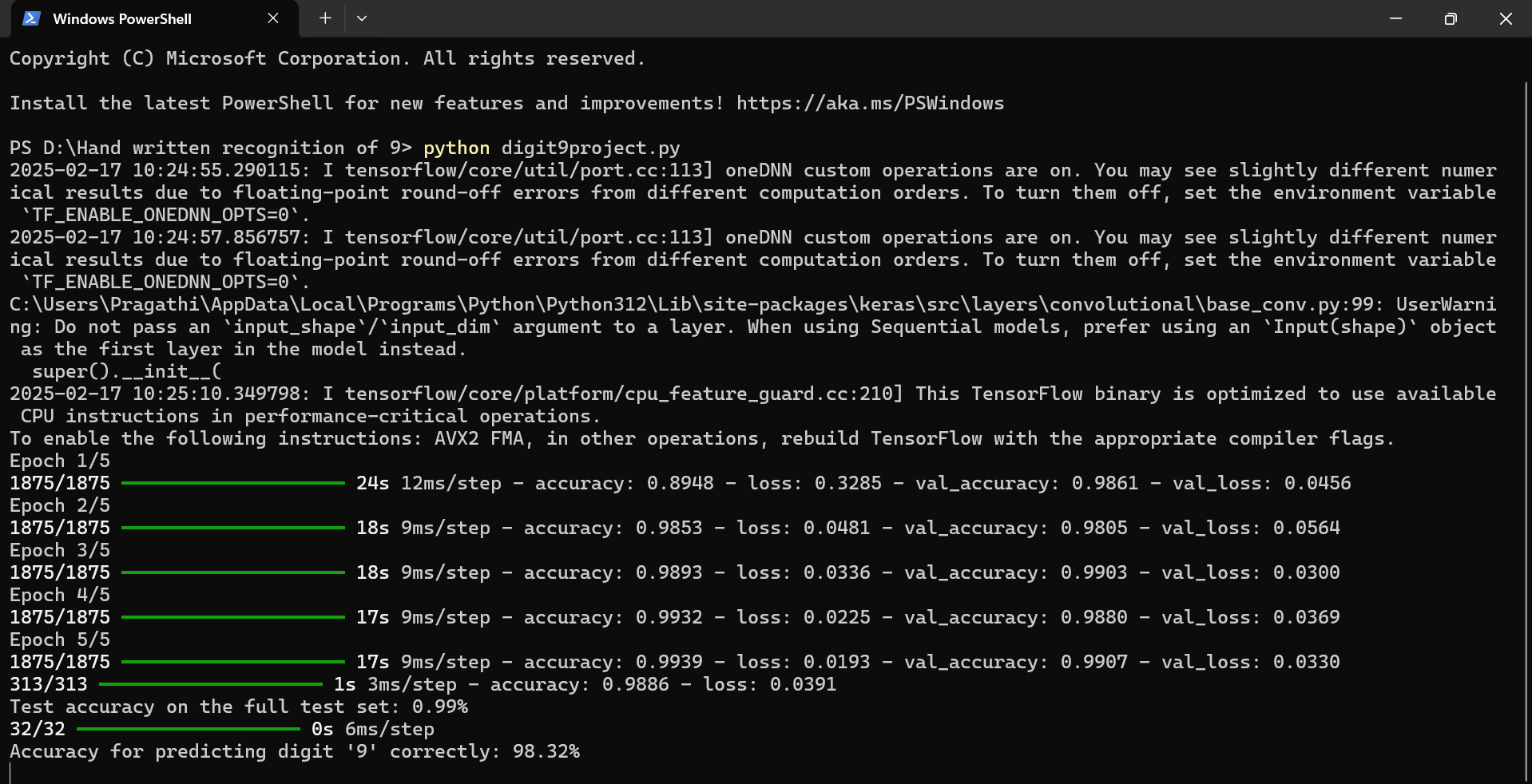
**Handwritten Digit Recognition using Convolutional Neural Networks**

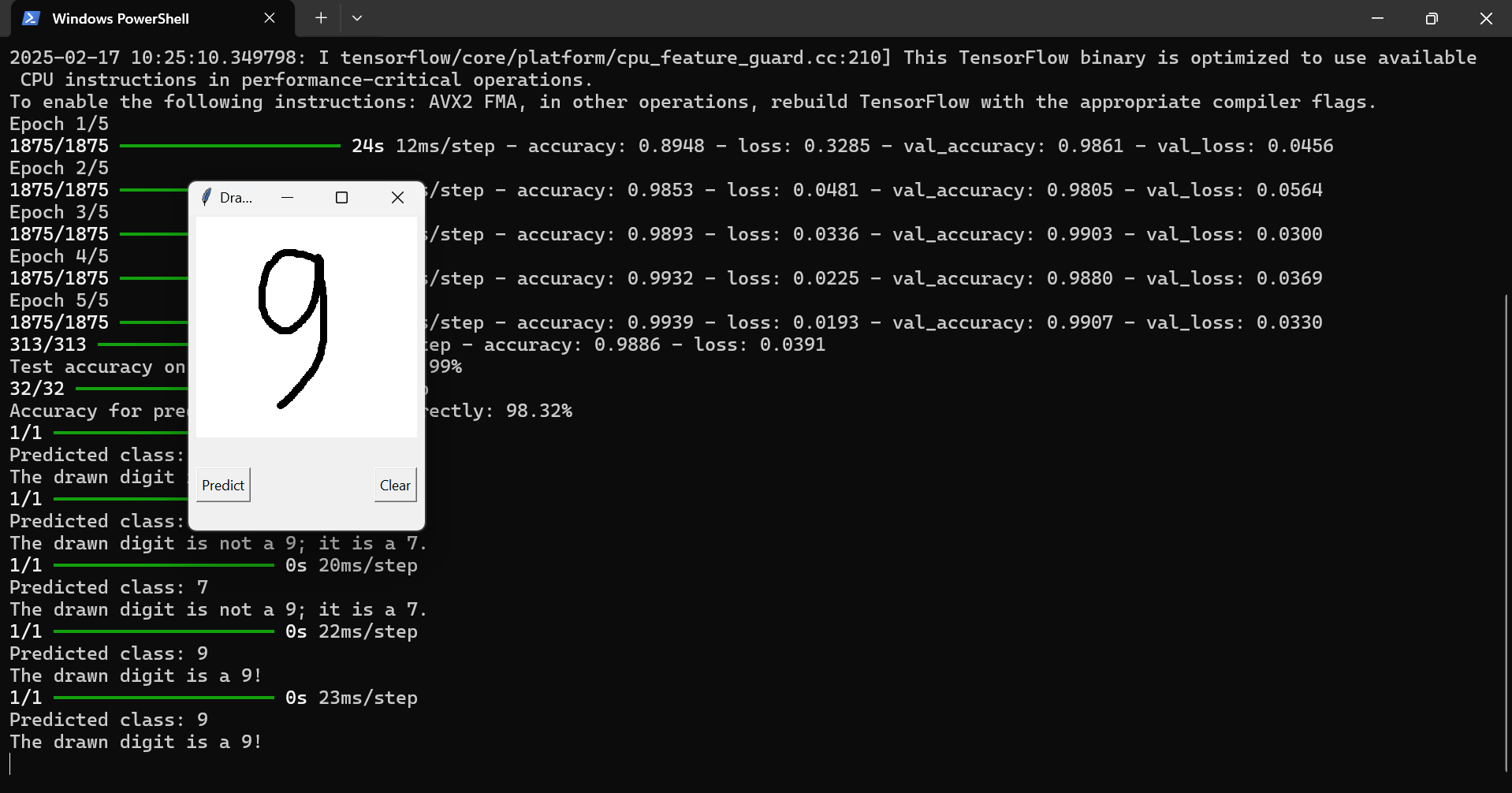
**Technologies and Tools Used:** Python, TensorFlow, Keras, CNN, NumPy, OpenCV, Jupyter Notebook, Tkinter, Matplotlib.

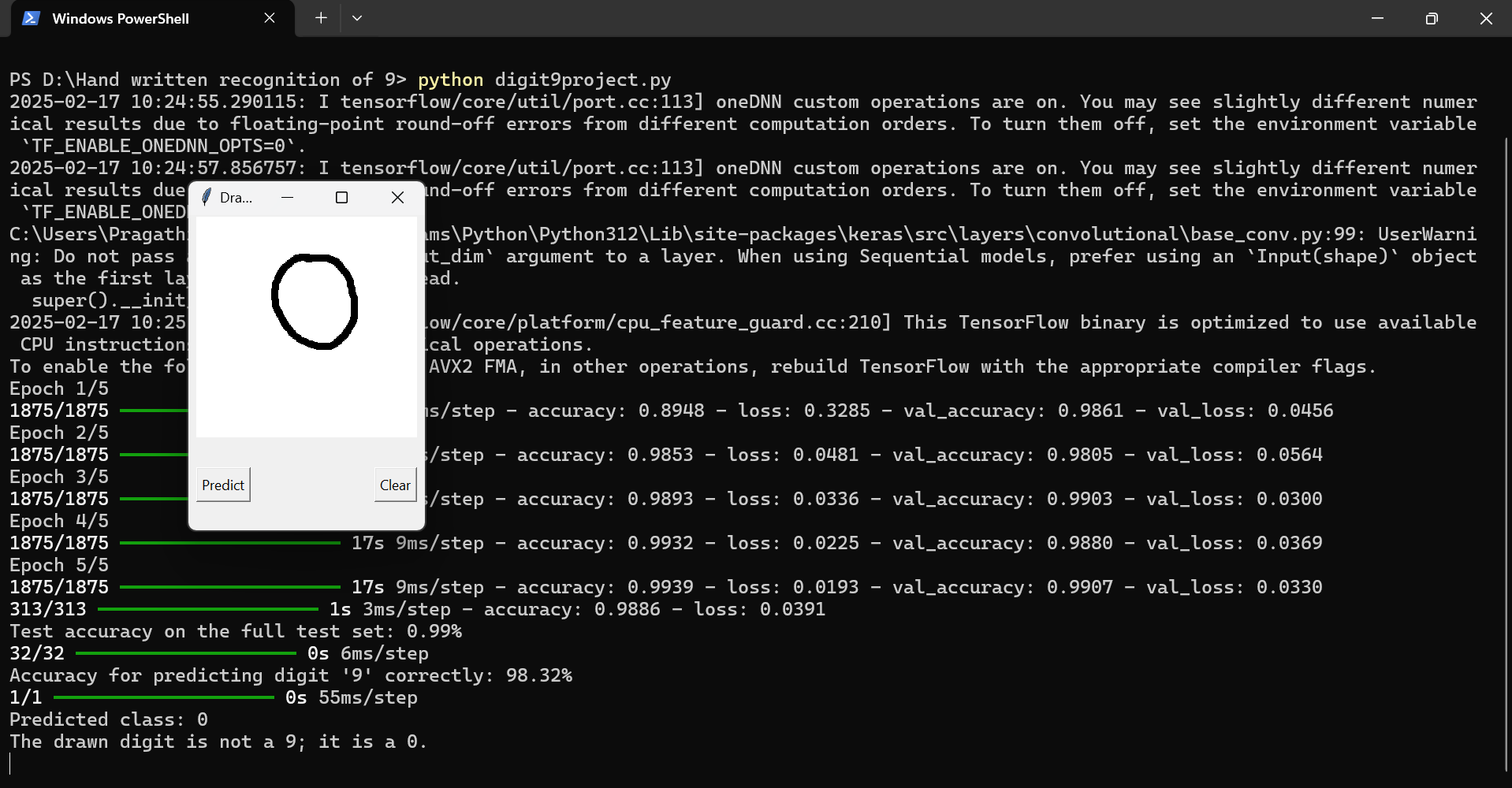
Developed a CNN model to identify the digit '9' from the MNIST dataset using Python, TensorFlow, and Keras. Designed and implemented the CNN architecture, performed image preprocessing with OpenCV, and trained the model to extract key features for accurate predictions. Built a real-time prediction interface using Tkinter, enabling interactive digit recognition. Integrated error detection for multiple digits, ensuring precise single-digit classification. Demonstrated skills in deep learning, image processing, and model deployment using NumPy, OpenCV, and Jupyter Notebook.

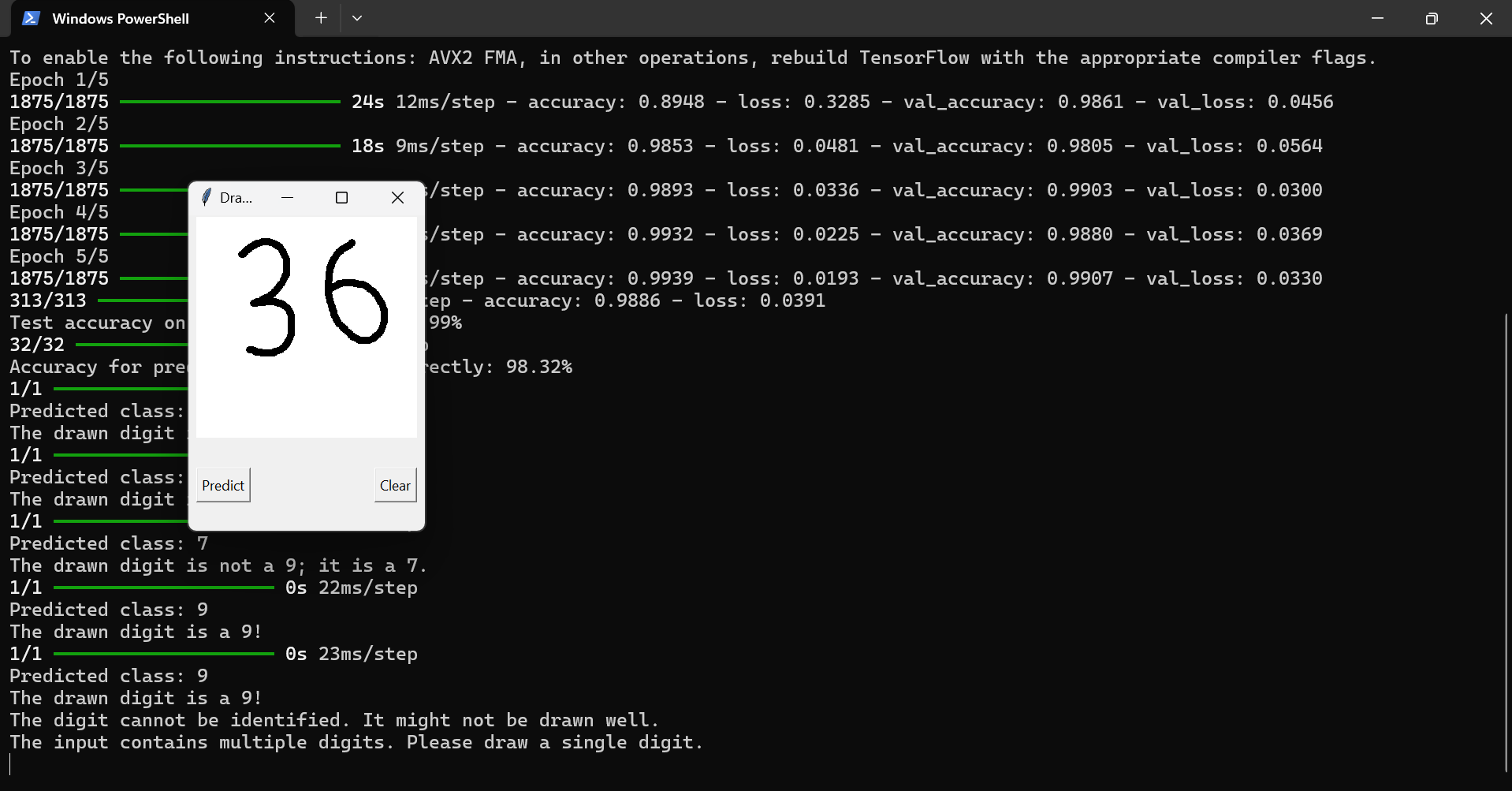
**Output:**

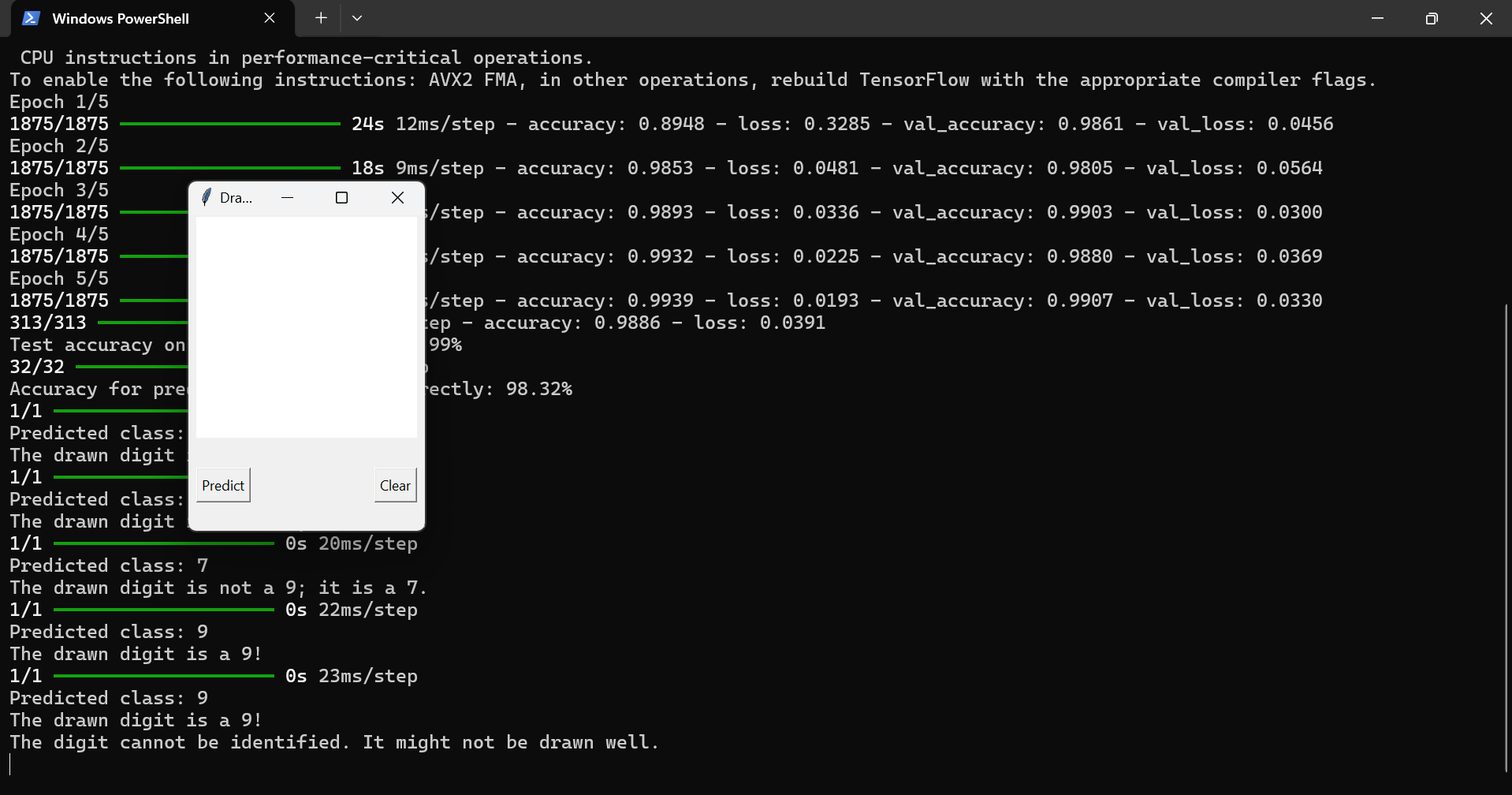
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