**Part 01**

3.4.

* **Smaller batch sizes:** Training is noisier, and the model might take longer to converge, but it might capture fine details better.
* **Larger batch sizes:** Training is smoother, but you might see less variety in the generated images.

**Part 02**

3.2.

* Reduces the overconfidence of the discriminator.
* Better training stability.
* The quality of generated images improves.

**Submission**

**b.**

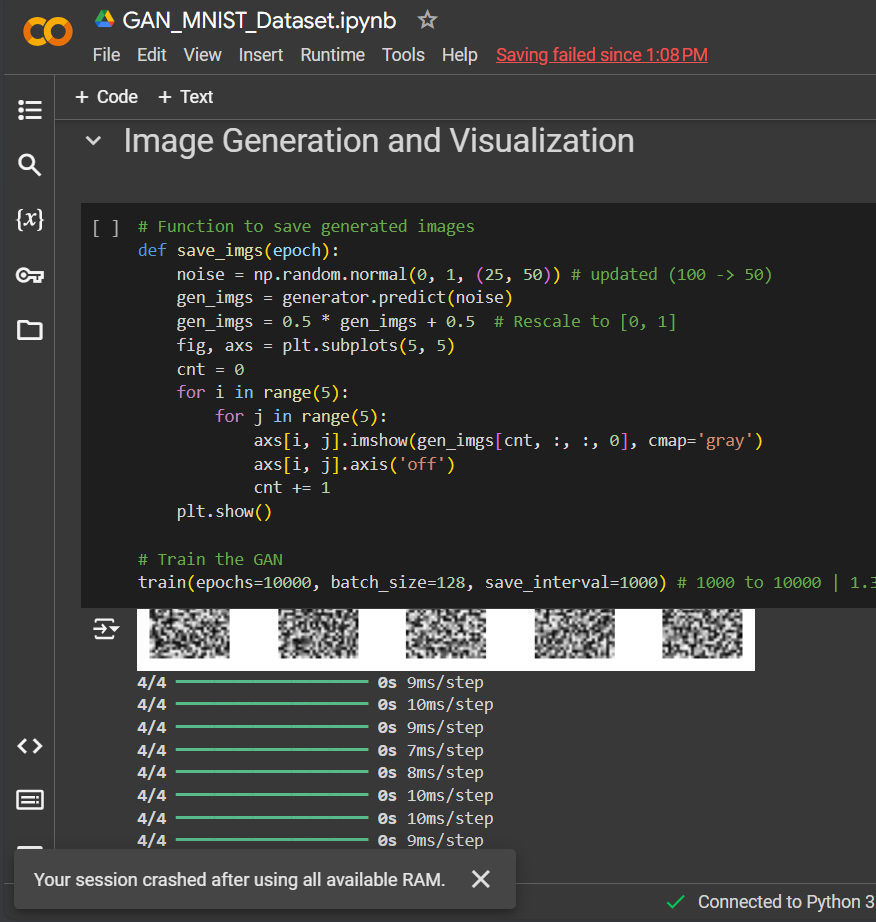
* Larger sizes increase diversity but may reduce coherence; smaller sizes yield clearer images but less variety.
* Adam converges faster and handles noise better; SGD offers stability but requires careful tuning.
* Larger batches stabilize training but may hurt generalization; smaller batches improve diversity but slow convergence.

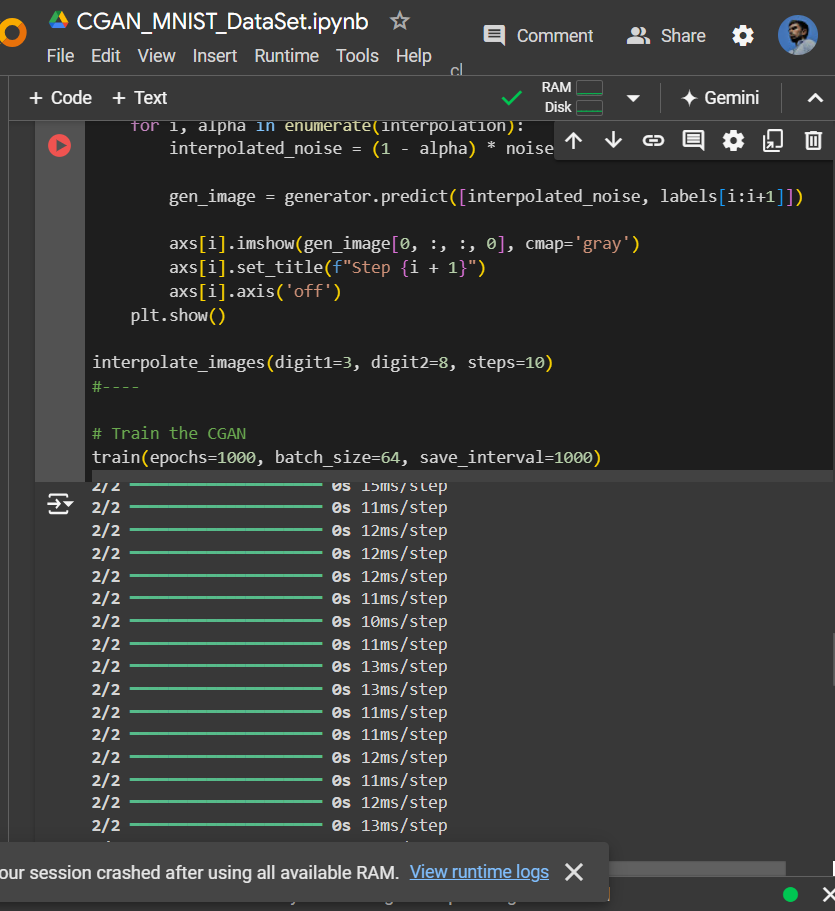
**c.**

* Images may vary from clear and realistic to blurry with artifacts.
* Generated images will reflect training dataset diversity, though some classes may be underrepresented, limiting the overall range.

[tharakabasuru/lab09 (github.com)](https://github.com/tharakabasuru/lab09)

*RAM Crashes*

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