GLG 809 Assignment

Prof. Seth Jacobson

1. The giant planet instability is motivated by the orbits of the giant planets. Explain why we expect the giant planets to grow on in-plane circular orbits. Hint: what was the environment in which they grew?

We expect planets to grow on in-plane circular orbits because they grew within the gaseous disk of the sun. The gaseous disk of the sun would stretch out in one plane so we would expect the planetary orbits to be within that same plane. Due to the suns gravitational force the gaseous disk would be circular, if the gaseous disk were circular we would expect the planetary orbits to also be circular.

1. Download git onto your work computer and create an account on github. Using these tools, demonstrate the basics of git use.
   1. Take an existing project\* and create a git repository for it. Commit two separate changes\*\* to the project files commenting them as you go.
   2. Connect your git repository on your computer to github and sync the two repositories by pushing from your local computer (i.e. local repository) to github (i.e. remote repository or “the cloud”). Then edit the README file on github, commit, and then pull the change down to your local computer.
   3. Copy the output of the git log command below to show that you did this.

\*I don’t care what the project files are. Git won’t either (except if they are very large). Seriously, could be the family recipe collection. Content is not important here.

\*\*I don’t care what the changes are. They could be significant. They could be meaningless.

2. Git hub

A screenshot of a computer

AI-generated content may be incorrect.

Git log code

(base) Katherines-MacBook-Pro-7:my-project katherinesluder$ git log

commit fcb3560da9f5deb9b6bd0ab27f6443215010a652 (**HEAD -> main**)

Author: Katherine Sluder <katherinesluder@ou.edu>

Date: Tue Sep 9 16:26:13 2025 -0400

first commit

commit e7aa99ff35d7402ecb8458b4b7fd63804d4665ad

Author: Katherine Sluder <katherinesluder@ou.edu>

Date: Tue Sep 9 16:23:58 2025 -0400

Initial commit