McKeeley Stansberry

DADA2 Assignment

1. Graphical user interface, website

   Description automatically generatedComplete the Moving pictures tutorial to complete the Option 1: DADA2 section and enter pwd and ls and then take a screenshot.
2. Describe (to the best of your ability) each of the 5 steps in the DADA2 pipeline and the types of sequences that will be removed in each of these steps.

The DADA2 pipeline consists of 5 steps these steps are filtering, dereplication, denoising, chimeras, and merging. The first step involves trimming which removes sequences that are smaller than the length entered and organizes the sequences by Q-score. In this step you can find the best quality and the N’s, meaning the sequencer did not know. In the second step which is dereplication it puts all the same sequence reads into their abundances and unique sequences (aka narrows it down). This stage eliminates reoccurring reads. The third stage, denoising step removes any errors in the sequence from the reads and forms the end product of ASVs. The fourth step which is chimeras, involves the removal of chimeras after denoising which makes it simpler to pick out. The last step Merging involves combining the reads together if they overlap the same when they are aligned between pairs.