Name: Douglas W.

Project Title: Famous Viral Pathogens- Entry-level Taxonomy and Pathology
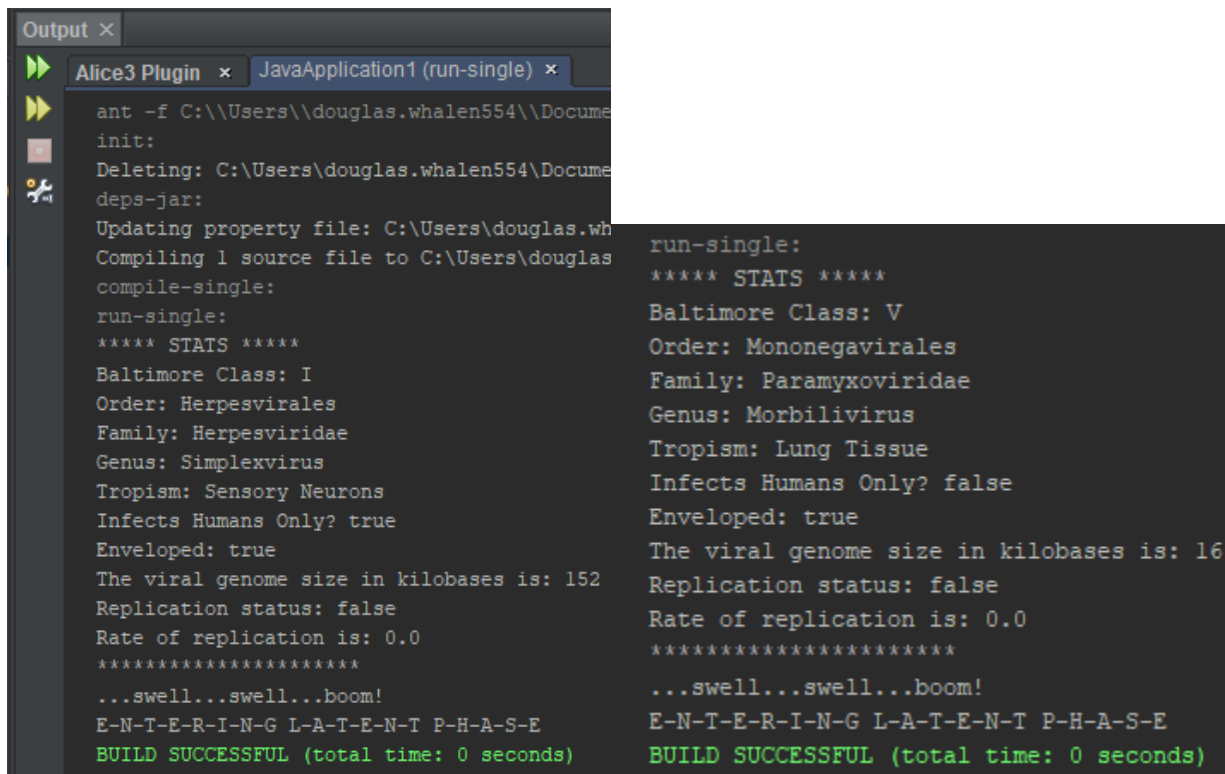
Term: Fall 2018

Course Name/ Number: CIT 111 - Introduction to Programming: Java

School Name: Community College of Allegheny County/ North Campus

Access Instructions: https://github.com/microbiologydouglas/CIT111F2018FinalProjectWhalen.git

Description: Depending on which file is called, my program produces entry-level taxonomic and pathogenesis data on six viruses. These viruses were selected because I love them, and it made me feel closer to them to work on this program. The purpose of my program is educational. I cannot definitively invent/ extrapolate an application for my program beyond undergraduate virology coursework study materials, but theoretically, the project could be expanded to a more robust, comprehensive encyclopedic application for clinical/ laboratory personnel who need a fast reference in a more user-friendly reference than the currently available, and unwieldy, canons in use today (e.g. *Fields Virology*).

Screen-shots:

Useful learning resources: https://viralzone.expasy.org/

Ideas for future development: pull virus graphics, images, and especially viral genome data from the web (ViralZone, NCBI, Broad Institute, Max-Planck-Gesellschaft, L'Institut Pasteur, RIKEN, etc.)