Design Document

The program that we designed was intended to be user friendly and easy to switch between methods which is why we went with a modular design separating each of the ciphers (Caesar, Vigenère, and One-Time Pad) into their own python file that was then called from the main file. This allowed us to work separately on different branches working on our own cipher and then come back together to piece them all in. However in hindsight it was much more work creating 3 different algorithms rather than making the Vigenère Cipher and passing both the One Time Pad cipher and the Caeser cipher directly in that after checking sizing. We chose to work with python because of its simplicity and we wanted something different than what we typically use like C++.