

IDC306: Biocomputing
Assignment-12
Date: 4 Apr 2024

Q1: Write a class 'Sequence', which will take DNA/protein sequence as input and can compute:

- a. Composition.
- b. Find whether the input sequence is DNA/protein
- c. If the sequence is of DNA, it can find the longest ORF and report it.

Q2. Write a class to read a fasta file and store its content as attributes. Sequence names as list and fasta sequence (as dict) accessible using sequence names.