

Batch-2 Question

1. You have been provided a file (batch2.fasta) having one DNA sequence and one protein sequence. The DNA and Protein sequence starts with 'NC' and 'NP' respectively. Write a program to generate codon table. It should report amino acids and codons representing it.
 - a. Write a function, which would take a DNA and Protein sequence as argument and returns mapping between amino acids to codon. The function should:
 1. It should include documentation and return usage with help().
 2. It should check whether undesired character is included in the sequence and return 'Mapping error'.
 3. It makes case of character consistent.
 4. Optional: Check whether the DNA sequence is of appropriate length given the protein sequence is correct.