Take home questions – Python Programming

- 1) The Fasta parser does not seem to take ambiguities in nucleotides sequences ('N') into account. Modify the script in a way that both nucleotide sequences with and without ambiguities are written to standard out.
 - Note that multiple conditions can be strung together in an 'if' statement using 'and', 'or', or 'not'. Alternatively, 'elif' may provide a solution to the problem.
 - At this point, we are using the modulo operator ('%') to distinguish between Fasta header lines and sequences. Recall that string objects have a method associated with them called 'startswith()'. Rewrite the script using the 'startswith()' method to distinguish between the Fasta header and the sequence.
- 2) As is the BLAST-Parser v3 script writes output to standard out. Modify the script by adding a nested 'with' loop to write the output to a file rather than standard out. Use 'sys.argv' to have the user provide the name of the output file.
 - The script uses a while loop to loop through the lines of the file. Replace the for loop with a while loop to accomplish the same goal. For this you will need the 'readline()' method that is associated with file objects.