Questions

1. Given a DNA sequence in the forward strand,
   (i) find the sequence of the reverse strand
   (ii) the RNA sequence synthesised
   (iii) the amino acid synthesised
   Sample DNA sequence:
   gtttcattataccagtttagatctatcgacagggcgttgagtgtgtgcttactcacggct
   ggcatgtaggtaacagtagtggggaagcgtaacatctgaggcctgactcacatatagagt
   gtcgaccaaggggtgaagcatcatacgccatacaggcccctagcgaaacgacctagtcta
   aagacacacgagaatgaaacccgtggacttggttacagcgtaataatctggtcagagctg
   gtccggcgctggcgatgtaccttacgccactgcaaaccggctttgcagagaacatctggg
   tacattcccgtgtcatgtcaaagcaggtgattcccgcgaaaaacaattaacgacgcattt
   gctattgacgaagtcctagttctccgaattgagcgggagacatatgatgtcgagactgca
   ggaaccgaattatcctgtccgcagatccaatagctcacagaggtaaggggagtgtgatgg
   tgccctagggtgtttgaacg

2. Write a program to generate a restriction map for Wuhan isolate-1 genome (Acc. Id.: NC_045512) using EcoRI as RE and compare your results with REBsites.

3. Write a program to identify all possible restriction recognition sites in a given DNA sequence.