Dynamic Gibbs Sampling to find motifs in DNA

- **Goal**: Find motifs in DNA
- **Method**: Gibbs Sampling with incorporation of a deterministic selection once the sample begins to converge
    - Deterministic = min(HammingDistance(Consensus,k-mer))
    - Selection of motif = random(Deterministic, Gibbs)
        - Probability of Gibbs = (tan-1(Score_Slope))/90
        - Probability of Deterministic = 1 - Gibbs
        - Score_Slope = Is the average slope of the graph of the score at each iteration
- **Expected results:** The deterministic approach should give a faster and more accurate convergence
- **Testing:**Test both my method and plain Gibbs sampling method on DNA strands with motif to quantify both performance and accuracy