WEEK-1

Financial Forecasting

1.Understand Recursive Algorithms:

* + Explain the concept of recursion and how it can simplify certain problems.

Recursion is a function which calls itself to solve problems by breaking the problem into smaller subproblems.

By using recursion we can break complex problems into small subproblems.

We can use recursion for problems like factorials, Fibonacci , Tree.

4.Analysis:

* + Discuss the time complexity of your recursive algorithm.
  + Explain how to optimize the recursive solution to avoid excessive computation.

Time Complexity: O(n) n-periods

Each call decreases by 1 so it starts from n and end to 0.

Advantage of using iteration is no risk of stackoverflowerror even for large periods.