**Dynamic Programming in JavaScript:**

Dynamic programming is a technique used to solve problems by breaking them down into simpler subproblems and solving each subproblem only once, storing the results to avoid redundant computations. JavaScript provides powerful capabilities for implementing dynamic programming algorithms efficiently.

**Fibonacci:**

The Fibonacci sequence is a series of numbers where each number is the sum of the two preceding ones, typically starting with 0 and 1. Dynamic programming can be applied to efficiently calculate Fibonacci numbers using memoization or a bottom-up approach, avoiding redundant calculations and improving performance.

**Knapsack Problem:**

The 0-1 knapsack problem is a classic optimization problem where the goal is to maximize the total value of items selected for a knapsack without exceeding its weight capacity. Dynamic programming techniques can be used to solve this problem by considering all possible items and maximizing the total value within the given weight constraint, achieving optimal solutions efficiently.

**Longest Common Subsequence:**

The longest common subsequence problem involves finding the longest subsequence common to two sequences (arrays or strings). Dynamic programming techniques can be applied to efficiently find the length of the longest common subsequence, facilitating various applications such as sequence alignment and DNA analysis.