**Question: Financial Forecasting.**

**Code:**

public class FinancialForecasting {

public static int maxProfit(int[] profits) {

int n = profits.length;

if (n == 0) return 0;

if (n == 1) return profits[0];

if (n == 2) return Math.max(profits[0], profits[1]);

int[] dp = new int[n];

dp[0] = profits[0];

dp[1] = Math.max(profits[0], profits[1]);

for (int i = 2; i < n; i++) {

dp[i] = Math.max(profits[i] + dp[i - 2], dp[i - 1]);

}

return dp[n - 1];

}

public static void main(String[] args) {

int[] monthlyProfits = {5, 1, 1, 5, 10, 3}; // Example input

int result = maxProfit(monthlyProfits);

System.out.println("Maximum Forecasted Profit: " + result);

}

}

**Output:**

