**SUPERSET ID: 6391783**

**Exercise 7: Financial Forecasting**

**CODE:**

import java.util.Scanner;

public class FinancialForecasting {

public static double calculateAverage(int[] revenue) {

int sum = 0;

for (int value : revenue) {

sum += value;

}

return (double) sum / revenue.length;

}

public static int findMax(int[] revenue) {

int max = revenue[0];

for (int value : revenue) {

if (value > max) max = value;

}

return max;

}

public static int findMin(int[] revenue) {

int min = revenue[0];

for (int value : revenue) {

if (value < min) min = value;

}

return min;

}

public static double forecastNext(int[] revenue) {

double avg = calculateAverage(revenue);

return revenue[revenue.length - 1] + ((avg - revenue[0]) / revenue.length);

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("📊 Enter number of months' data: ");

int months = sc.nextInt();

int[] revenue = new int[months];

System.out.println("💰 Enter revenue for each month:");

for (int i = 0; i < months; i++) {

System.out.print("Month " + (i + 1) + ": ");

revenue[i] = sc.nextInt();

}

double average = calculateAverage(revenue);

int max = findMax(revenue);

int min = findMin(revenue);

double forecast = forecastNext(revenue);

System.out.println("\n===== 📈 Financial Summary =====");

System.out.printf("🔹 Average Revenue: ₹%.2f\n", average);

System.out.println("🔹 Highest Revenue: ₹" + max);

System.out.println("🔹 Lowest Revenue: ₹" + min);

System.out.printf("🔹 Forecasted Next Month Revenue: ₹%.2f\n", forecast);

sc.close();

}

}

**OUTPUT SCREENSHOT:**

**A screenshot of a computer screen

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