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START

STEP 1: Import required libraries
    Import pandas
    Import matplotlib.pyplot
    Import seaborn

STEP 2: Load dataset
    Read CSV file "input.csv" into dataframe df
    Display first few rows of dataset

STEP 3: Visualize dataset
    Set seaborn theme to darkgrid
    Plot scatter graph:
        X-axis = study_time_hours
        Y-axis = score
    Label X-axis and Y-axis
    Display plot

STEP 4: Define loss function
    FUNCTION loss_function(m, b, points):
        Set total_error = 0
        FOR each data point in dataset:
            x = study_time_hours
            y = score
            error = y – (m*x + b)
            total_error = total_error + error²
        RETURN total_error / number of points
    END FUNCTION

STEP 5: Define gradient descent function
    FUNCTION gradient_descent(m_now, b_now, points, L):
        Set m_gradient = 0
        Set b_gradient = 0
        Set n = number of points

        FOR each data point:
            x = study_time_hours
            y = score

            Calculate m_gradient contribution
            Calculate b_gradient contribution

        Update slope:
            m = m_now – (L × m_gradient)

        Update intercept:
            b = b_now – (L × b_gradient)

        RETURN m, b
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    END FUNCTION

STEP 6: Initialize parameters
    Set m = 0
    Set b = 0
    Set learning rate L = 0.01
    Set epochs = 2000

STEP 7: Train model using gradient descent
    FOR i from 0 to epochs:
        IF i is divisible by 50:
            Display epoch number
        Update m, b using gradient_descent function

STEP 8: Display final values
    Print final slope (m) and intercept (b)

STEP 9: Plot regression line
    Plot scatter graph of original data
    Plot regression line using equation:
        y = m*x + b
    Label axes
    Display plot

END
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