

| Weight | Price |
|--------|-------|
| 2 | 35 |
| 4 | 60 |
| 5 | 20 |
| 3 | 50 |
| 6 | 50 |
| 5 | 55 |
| 7 | 60 |

Task 01:

Your objective is to manually compute the slope (M) and y-intercept (C) using Ordinary Least Squares Linear Regression. Once determined, apply these values to predict the price when the vegetable weight is 6.

Task 02:

Compute the residuals for each data point.

Task 03:

Calculate both the Mean Squared Error (MSE) and Mean Absolute Error (MAE).

Final Task:

Generate an Excel file for the given dataset. Utilize Python for all the calculations.

Note: To validate your manual calculations, use the entire dataset. It's unnecessary to split the dataset.