Linear Regression
Assignment

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.