From textbook: Fundamentals of Machine Learning for Predictive Data Analytics: Algorithms, Worked Examples, and Case Studies from MIT Press 2015, do following exercise:

1. (15%) Chapter 7, exercise 2
2. (15%) Chapter 7, exercise 3
3. (15%) Chapter 7, exercise 4
4. (15%) Chapter 8, exercise 2
5. (15%) Chapter 8, exercise 3
6. (25%, coding assignment) What is ordinary least square (OLS) method to obtain linear regression model weights? See <https://en.wikipedia.org/wiki/Ordinary_least_squares>. Can you implement this OLS method by Python to predict following dataset (<https://drive.google.com/open?id=1oakZCv7g3mlmCSdv9J8kdSaqO5_6dIOw>)?