Assignment 3

In this question, you will build a model to predict the price of diamonds using linear regression. You will have to build the model from scratch. Make sure to use vectorized code using `numpy` library's `.dot()` function and `.sum()` functions etc. Without vectorization, the code will take a lot longer to run (around 100x longer).

- You will have to write code in four functions.
- Download the `q1_starter.ipynb` file and complete the code where it says `# Your code here`.
- The docstrings are given for the functions.
- The expected outputs are also given.