```
In [4]:  X_b = np.c_[np.ones((100, 1)), X]  # add x0 = 1 to each instance
         theta_best = np.linalg.inv(X_b.T.dot(X_b)).dot(X_b.T).dot(y)

In [5]:  theta_best

Out[5]:  array([[4.21509616],
                [2.77011339]])
```