Linear Regression

1. implementL2.py is the one in which L2 regularized linear regression algorithm is implemented for λ in range from 0 to 150. And plotted both the training set MSE and test set MSE as a function of lambda.
2. lerningCurve.py is the one in which a learning curve for the algorithm is plotted using the dataset $1000\ 100$.csv for $\lambda = 1, 46, 150$.
3. crossValidation.py is the one in which the Cross Validation technique is used to predict the value of λ.

The Data folder contains the data files on which LR is implemented.
The Images.pdf contains the graph plotted for implementL2.py and lerningCurve.py for all the data sets.