The following document will give a general description on how to run the project. In this project, I implemented my first multiple linear regression model and utilized the MNIST datasets.

* The libraries that were used:
  + Numpy
  + Python
  + Pandas
  + Matplotlib
  + Seaborn
  + Sklearn

Every library should be included in the base Anaconda environment if people are using Jupyter Notebbok via the Anaconda Notebook.

The whole project can be downloaded via github on:

<https://github.com/manishk20/Number-detection-mnist.git>

This project can be clone/forked if you have git installed in your system. Otherwise, you can manually download the file. The most important files are:

1. number recognition.ipynb
2. testingdata (This is a folder that contains some test sample images of numbers)
3. managing image

Working:

Any external image should be first converted into the desired input data array using managing image.py program .

Had to change the path of image used in managing image program and then copy the array given by the program to the machine learning model in number recognition notebook where model predicts the output taking some input.