```
%% Load dataset
```

```
function [imgTrainAll, lblTrainAll, imgTestAll, lblTestAll] = Load_dataset()
  imgTrainAll = loadMNISTImages('train-images.idx3-ubyte');
  lblTrainAll = loadMNISTLabels('train-labels.idx1-ubyte');
  imgTestAll = loadMNISTImages('t10k-images.idx3-ubyte');
  lblTestAll = loadMNISTLabels('t10k-labels.idx1-ubyte');
end
%% Training Phase
function model = Training_Phase(X_train, y_train)
  %% Training model using knn
  model = fitcknn(X_train, y_train);
  save('model.mat', 'model');
end
%% Test Phase
function label = Test_Phase(imgTestAll, lblTestAll, index)
  img = imgTestAll(:, index);
  load('model.mat');
  label = predict(model, img');
  fprintf('Predicted Label: %d \n', label);
  fprintf('Real Label: %d \n', lblTestAll(index));
end
```