```
clc
close all
clear
```

# For Testing Just Copy Result SVM Matrix in Test Folder

```
negURL = '.\neg\';
posURL = '.\pos\';
maximumTrainingSamples = 20;
C = .0001;
if(exist('NegativeTrainHOG.mat','file')~=2 || exist('PositiveTrainHOG.mat','file')
HOGTrainingFolder(negURL,posURL,maximumTrainingSamples);
end
TrainSVM(maximumTrainingSamples,C);
```

```
                                        First-order  Total relative
 Iter          f(x)      Feasibility    optimality       error
    0    1.890400e+03    1.000e+04     8.974e+03    1.229e+04
    1    1.101787e+04    1.258e+02     1.138e+02    2.214e+04
    2    6.497276e+03    0.000e+00     7.505e+01    1.261e+04
    3    2.434996e+03    0.000e+00     1.404e+01    4.050e+03
    4    1.371474e+03    0.000e+00     9.535e-01    1.683e+03
    5    5.330445e+02    0.000e+00     2.802e-01    7.062e+02
    6    2.262167e+02    0.000e+00     3.338e-02    2.607e+02
    7    1.486752e+01    0.000e+00     1.101e-03    2.564e+01
    8    2.423374e+00    0.000e+00     1.232e-04    4.032e+00
    9    2.712271e-01    0.000e+00     1.053e-05    5.034e-01
   10    4.198477e-02    0.000e+00     4.300e-06    7.321e-02
   11    6.843531e-03    0.000e+00     1.938e-06    1.037e-02
   12    1.433169e-03    0.000e+00     6.132e-07    1.418e-03
   13    5.821381e-04    0.000e+00     9.826e-08    1.791e-04
   14    4.538119e-04    0.000e+00     1.360e-08    1.225e-05
   15    4.480366e-04    0.000e+00     9.998e-10    4.744e-07

Minimum found that satisfies the constraints.

Optimization completed because the objective function is non-decreasing in
feasible directions, to within the default value of the function tolerance
and constraints are satisfied to within the default value of the constrain
```

*Published with MATLAB® 8.0*