OUTPUTS

* The value of Euclidian distances from the training samples are:

Distance of crop001030c.bmp from positive mean is 6.305276

Distance of crop001034b.bmp from positive mean is 5.953046

Distance of crop001063b.bmp from positive mean is 6.892974

Distance of crop001070a.bmp from positive mean is 6.519702

Distance of crop001275b.bmp from positive mean is 6.471653

Distance of crop001278a.bmp from positive mean is 6.870551

Distance of crop001500b.bmp from positive mean is 7.121741

Distance of crop001672b.bmp from positive mean is 6.366283

Distance of person\_and\_bike\_026a.bmp from positive mean is 6.684727

Distance of person\_and\_bike\_151a.bmp from positive mean is 6.985023

Distance of 00000003a\_cut.bmp from negative mean is 6.819218

Distance of 00000057a\_cut.bmp from negative mean is 6.850609

Distance of 00000090a\_cut.bmp from negative mean is 7.281807

Distance of 00000091a\_cut.bmp from negative mean is 7.263413

Distance of 00000118a\_cut.bmp from negative mean is 6.891013

Distance of 01-03e\_cut.bmp from negative mean is 7.018542

Distance of no\_person\_\_no\_bike\_219\_cut.bmp from negative mean is 6.332422

Distance of no\_person\_\_no\_bike\_258\_Cut.bmp from negative mean is 7.328343

Distance of no\_person\_\_no\_bike\_259\_cut.bmp from negative mean is 5.980665

Distance of no\_person\_\_no\_bike\_264\_cut.bmp from negative mean is 8.038696

* The initial W is a vector of 3780 values, each equal to 1.
* The value of learning rate alpha is taken as 0.5.
* Order of training samples is:

crop001030c.bmp

crop001034b.bmp

crop001063b.bmp

crop001070a.bmp

crop001275b.bmp

crop001278a.bmp

crop001500b.bmp

crop001672b.bmp

person\_and\_bike\_026a.bmp

person\_and\_bike\_151a.bmp

00000003a\_cut.bmp

00000057a\_cut.bmp

00000090a\_cut.bmp

00000091a\_cut.bmp

00000118a\_cut.bmp

01-03e\_cut.bmp

no\_person\_\_no\_bike\_219\_cut.bmp

no\_person\_\_no\_bike\_258\_Cut.bmp

no\_person\_\_no\_bike\_259\_cut.bmp

no\_person\_\_no\_bike\_264\_cut.bmp

* No of iterations through the training samples is 6.
* On classification, the program classifies all the negative images correctly that it cannot detect human in the images.

On the other hand, out of the 5 positive test image, the program classifies 4 images out of 5 images that it can detect human in those images. The image that it failed to classify is 'crop\_000010b.bmp'.