```
function T = Online(TrainDatabasePath)
TrainFiles = dir(TrainDatabasePath);
Train Number = 0;
for i = 1:size(TrainFiles, 1)
not(strcmp(TrainFiles(i).name, '..')|strcmp(TrainFiles(i).name, '..')|strcmp(Tra
inFiles(i).name, 'Thumbs.db'))
      Train Number = Train Number + 1; % Number of all images in the
training database
  end
end
T = [];
for i = 1 : Train Number
  % I have chosen the name of each image in databases as a corresponding
  % number. However, it is not mandatory!
  str = int2str(i);
  str = strcat('\',str,'.jpg');
  str = strcat(TrainDatabasePath,str);
  img = imread(str);
  img = rgb2gray(img);
  [irow icol] = size(img);
  temp = reshape(img',irow*icol,1); % Reshaping 2D images into 1D image
vectors
  T = [T temp]; % 'T' grows after each turn
```