imagefiles = dir('\*.jpg');

nfiles = length(imagefiles); % Number of files found

for ii=1:nfiles

currentfilename = imagefiles(ii).name;

currentimage = imread(currentfilename);

images{ii} = currentimage;

faceDetector = vision.CascadeObjectDetector;

bbox=step(faceDetector,currentimage);

for j=1:size(bbox)

xbox=bbox(j,:);

subImage = imcrop(currentimage, xbox);

H = fspecial('disk',10);

blurred = imfilter(subImage,H);

currentimage(xbox(2):xbox(2)+xbox(4),xbox(1):xbox(1)+xbox(3),1:end) = blurred;

end

end

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* detail of code \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

In this code we read all the images in a folder and detect all the face in all images and also blur all the face in all the images

Step 1: read all the images in the folder use this code of matlab..

imagefiles = dir('\*.jpg');

step:2 find the number of images a=in folder

nfiles = length(imagefiles);

step 3: run a loop for all the images

for ii=1:nfiles

step 4: read the name of all the images in a folder one by one

currentfilename = imagefiles(ii).name;

step 5: read all the images by name one by one

currentimage = imread(currentfilename);

step 6: store images in array and detect faces trough pre defined function

images{ii} = currentimage;

faceDetector = vision.CascadeObjectDetector;

step 7: save the detected face in a box

bbox=step(faceDetector,currentimage);

step 8: crop all the faces in the image

for j=1:size(bbox)

xbox=bbox(j,:);

subImage = imcrop(currentimage, xbox);

step 9: apply the filer disk on the cropped areas in images means on the detected faces

H = fspecial('disk',10);

blurred = imfilter(subImage,H);

step 10: again set image in the current image with applied blur filer

currentimage(xbox(2):xbox(2)+xbox(4),xbox(1):xbox(1)+xbox(3),1:end) = blurred;

\*\*\*\*\*\*\*\*\*\*\*\*\* for extension changing do all the above process if you want to blur and also want to change the extension just this one line of in last but before the end of inner loop

imwrite(currentimage,strcat(currentfilename,'.bmp'));

end %inner loop

end% outer loop

3re assignment image ccompression

imagefiles = dir('\*.jpg');

nfiles = length(imagefiles); % Number of files found

for ii=1:nfiles

currentfilename = imagefiles(ii).name;

currentimage = imread(currentfilename);

images{ii} = currentimage;

%this portion of code is used for image compression it compress the image in wtc format and it is reduce the size of immage

[CR,BPP]=wcompress('c',currentimage,strcat(currentfilename,'.wtc'),'gbl\_mmc\_h','BPP',0.5);

end