```
clc;
clear all;
close all;
% Read files form pc.
[FileName,PathName] = uigetfile('./Input_Image/*.tif;*.jpg;*.png;*.bmp',...
                     'Select an Input Image File');
[file_path,name,ext] = fileparts(FileName);
info = imfinfo([PathName '\' FileName]);
W = info.Width;
H = info.Height;
% Input Image Read
In_Img = (imread([PathName '\' FileName]));
figure;
imshow(In_Img);
% title('Input Image');
title(sprintf('Input Image Size %d X %d ',H,W));
[rows, columns, no_of_band] = size(In_Img);
if isequal (no_of_band,3)
       % Convert it to gray scale
  gray = rgb2gray(In_Img);
else
  gray = In_Img;
end
figure;
imshow(gray);
title('Gray Image');
```

```
% Filter - Preprocessing
InImg = gray;
Gs=fspecial('gaussian');
[rows1, columns1, no_of_band1] = size(InImg);
if isequal (no_of_band1,3)
       % Convert it to gray scale
       In_fil(:,:,1)=medfilt2(double(InImg(:,:,1)));
  In_fil(:,:,2)=medfilt2(double(InImg(:,:,2)));
  In_fil(:,:,3)=medfilt2(double(InImg(:,:,3)));
else
  In_fil=medfilt2(double(InImg));
end
figure; imshow(uint8(In_fil)); title('Preprocessed Image');
% Feature Extraction
originallmage=In_Img;
corners = detectHarrisFeatures(gray);
figure;
imshow(originalImage); hold on;
plot(corners.selectStrongest(1000));
title('Input Features Image');
points = detectBRISKFeatures(originalImage);
figure;
 imshow(originalImage); hold on;
 plot(points.selectStrongest(20));
I_thresh = im2bw(gray,graythresh(gray));
```

```
figure;
imshow(I_thresh);title('Threshold Segmentation');
load 'Train_Data.mat';
addpath(genpath('Functions'));
Train = mean(sign_feat,2);
Test = cnn(imresize(In_Img,[256 256]));
Test = mean(Test);
CNN_Mem = ismember(Train, Test);
X = find(CNN\_Mem(:,1)>0)
X = mean(X);
if (X >1 && X < 150)
  disp('Detected Status: Forgery')
  helpdlg(' Detected Author: Forgery ');
elseif (X >=151 && X <= 300)
  disp('Detected Status: Original')
  helpdlg(' Detected Status: Original ');
end
```