Expt No.:5 Removal of salt & pepper noise

Addition of salt & pepper noise 1

clc;

clear all;

close all;

a=imread('rss.jpg');

a=rgb2gray(a);

## Addition of salt & pepper noise

b=imnoise(a,'salt & pepper',0.1);

%%Defining box &median filter

h1=1/9\*ones(3,3);

h2=1/25\*ones(5,5);

%%applying smoothing filter

c1=conv2(b,h1,'same');

c2=conv2(b,h2,'same');

%%applying median filter

c3=medfilt2(b,[3,3]);

c4=medfilt2(b,[5,5]);

figure

subplot(3,2,1);imshow(a);

title('original image');

subplot(3,2,2);imshow(b);

title('salt and pepper noise');

subplot(3,2,3);imshow(uint8(c1));

title('3\*3 smoothing');

subplot(3,2,4);imshow (uint8(c2));

title('5\*5 smoothing');

subplot(3,2,5);imshow(uint8(c3));

title('3\*3 median filter');

subplot(3,2,6);imshow(uint8(c4));

title('5\*5 median filter');

**Output:**