*Editor>>*

clc;

close all;

clear all;

im=imread('cameraman.tif'); %Read the image

[r,c]=size(im); %Rows and Columns of the Image

im\_n=imnoise(im,'salt & pepper'); %Adding Salt & Pepper Noise the image

msk\_r=input('Enter number of rows of the mask: '); %Rows of Empty Mask

msk\_c=input('Enter number of columns of the mask: '); %Columns of Empty Mask

R\_padded=(msk\_r-1)/2; % Number of rows to be padded

C\_padded=(msk\_c-1)/2; ; % Number of columns to be padded

im\_pad=padarray(im,[R\_padded,C\_padded],0); %Zero Padding

for i=(1+R\_padded):(r+R\_padded)

for j=(1+C\_padded):(c+C\_padded)

sub\_img=im\_pad(i-R\_padded:i+R\_padded,j-C\_padded:j+C\_padded);

med=median(median(sub\_img)); %Median Of the Image

result(i-R\_padded,j-C\_padded)=med; %Replacing(Filtering) of the Image

end

end

subplot(2,3,1);

imshow(im);

title('Original Image');

subplot(2,3,2);

imshow(im\_n);

title('Noisy Image (Salt & Pepper)');

subplot(2,3,3);

imshow(result);

title('Filtered Image');

***OUTPUT>>***

Enter number of rows of the mask: 5

Enter number of columns of the mask: 5



