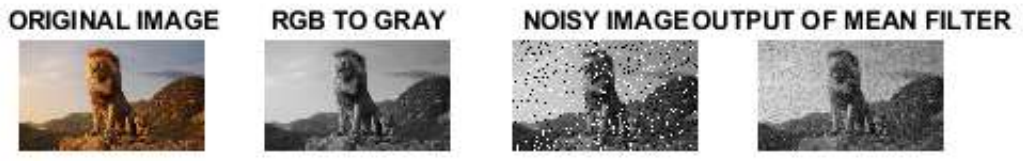
```
clc;
clear all;
close all;
I = imread('lion.png');
Im = rgb2gray(I);
noisy = imnoise(Im, 'salt & pepper',0.1);
[m,n]=size(noisy);
output = zeros(m,n);
output=uint8(output);
 for i=2:m-1;
     for j=2:n-1;
         xmin = max(1,i-1);
         xmax = min(m,i+1);
         ymin = max(1,j-1);
         ymax = min(n,j+1);
          temp = noisy(xmin:xmax, ymin:ymax);

          output(i,j)=mean(temp(:));
     end
 end

 subplot(141),imshow(I),title('ORIGINAL IMAGE');
 subplot(142),imshow(Im),title('RGB TO GRAY');
 subplot(143),imshow(noisy),title('NOISY IMAGE');
 subplot(144),imshow(output),title('OUTPUT OF MEAN FILTER');
```



Published with MATLAB® R2019b