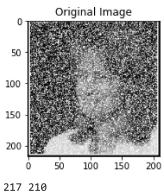
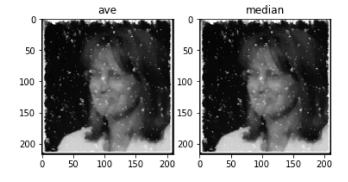
```
In [43]:
                                                         import numpy as np
                                                         import cv2 as cv
                                                         from matplotlib import pyplot as plt
                                                         im = cv.imread('10.jpg',0)
                                                         im2=im
                                                         print ("mohsen mousaei")
                                                        plt.subplot(121),plt.imshow(im,cmap = 'gray')
                                                        plt.title('Original Image')
                                                         plt.show()
                                                        m,n=im.shape
                                                         k=np.array([[1,1,1],[1,0,1],[1,1,1]])
                                                         edge=np.zeros((m,n))
                                                        print(m,n)
                                                        for i in range(m-2):
                                                                                    for j in range(n-2):
                                                                                                              1 = (im[i,j]*k[0,0]) + (im[i+1,j]*k[1,0]) + (im[i+2,j]*k[2,0]) + (im[i,j+1]*k[0,1]) + (im[i+1,j+1]*k[1,0]) + (im
                                                                                                              t = np.array([im[i,j],im[i+1,j],im[i+2,j],im[i,j+1],im[i+2,j+1],im[i,j+2],im[i+1,j+2],im[i+2,j+1],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im[i+1,j+2],im
                                                                                                              im [i+1,j+1]=1/8
                                                                                                              im2[i+1,j+1]=np.median(t)
                                                         plt.subplot(121),plt.imshow(im,cmap = 'gray')
                                                        plt.title('ave')
                                                        plt.subplot(122),plt.imshow(im2,cmap = 'gray')
                                                        plt.title('median')
```

mohsen mousaei



Out[43]: Text(0.5, 1.0, 'median')



In []:

5/25/2021 nois_0k