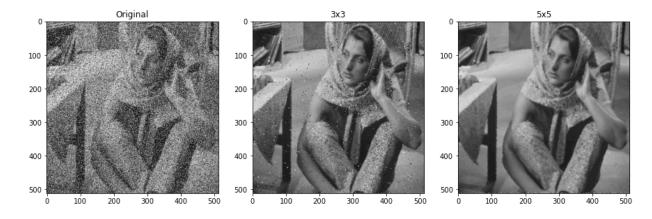
```
In [24]: import cv2
        import numpy as np
        import matplotlib.pyplot as plt
In [36]: img = cv2.imread('C:\\Users\\sayak\\anaconda3\\noisyimg.png',0)
        new img3 = cv2.imread('C:\\Users\\sayak\\anaconda3\\noisyimg.png', 0)
        new_img5 = cv2.imread('C:\\Users\\sayak\\anaconda3\\noisyimg.png', 0)
        prop = img.shape
for i in range(1, prop[0] - 1):
           for j in range(1, prop[1] - 1):
               win = []
               for x in range(i-1, i + 2):
                   for y in range(j-1, j+2):
                      win.append( img[x][y] )
               #sort the values
               win.sort()
               new_img3[i][j] = win[4]
for i in range(1, prop[0] - 2):
           for j in range(1, prop[1] - 2):
               win = []
               for x in range(i - 2, i + 3):
                  for y in range(j - 2, j + 3):
                      win.append(img[x][y])
               #sort the values
               win.sort()
               new_img5[i][j] = win[12]
```

```
In [28]: plt.figure(figsize=(15,15))
    plt.subplot(1,3,1)
    plt.imshow(img, 'gray')
    plt.title('Original')
    plt.subplot(1,3,2)
    plt.imshow(new_img3, 'gray')
    plt.title('3x3')
    plt.subplot(1,3,3)
    plt.imshow(new_img5, 'gray')
    plt.title('5x5')
```

Out[28]: Text(0.5, 1.0, '5x5')



In []: