```python
import numpy as np

import scipy.ndimage as ndi

from skimage import io, color, filters

from skimage import util

from scipy.ndimage import uniform_filter

import matplotlib.pyplot as plt


# Load and convert image to grayscale

image = io.imread(r"C:\Users\admin\Desktop\abdul kalam.jpg")

gray_image = color.rgb2gray(image)  # Convert to grayscale


# Mean Filter

def mean_filter(image, size=5):

    return ndi.uniform_filter(image, size=size)


# Median Filter

def median_filter(image, size=3):

    return ndi.median_filter(image, size=size)


# Gaussian Filter

def gaussian_filter(image, sigma=2.0):

    return ndi.gaussian_filter(image, sigma=sigma)


def box_filter(image, size=7):

    return uniform_filter(image, size=size)
```

```python
# Apply filters

mean_result = mean_filter(gray_image)

median_result = median_filter(gray_image)

gaussian_result = gaussian_filter(gray_image)

box_result = box_filter(gray_image)


# Save or display results as needed

io.imsave('mean_filtered_image.jpg', util.img_as_ubyte(mean_result))

io.imsave('median_filtered_image.jpg', util.img_as_ubyte(median_result))

io.imsave('gaussian_filtered_image.jpg', util.img_as_ubyte(gaussian_result))

io.imsave('box_filtered_image.jpg', util.img_as_ubyte(box_result))


def display_image(image, title):

    plt.figure(figsize=(8, 8))

    plt.imshow(image, cmap='gray')

    plt.title(title)

    plt.axis('off')  # Hide axis

    plt.show()


# Display results

display_image(mean_result, 'Mean Filter')

display_image(median_result, 'Median Filter')

display_image(gaussian_result, 'Gaussian Filter')

display_image(box_result, 'box Filter')
```