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Kelas : A

Implementasi Operasi Median Filter, Min Filter & Max Filter

1. Median Filter

Kode Program

```python
# Hairul Yasin
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import cv2
import numpy as np

# Load citra digital
img = cv2.imread('IMG1.jpg')

# Tentukan ukuran kernel
kernel_size = 3

# Lakukan operasi Mean Filter
img_mean = cv2.blur(img, (kernel_size, kernel_size))

# Tampilkan citra digital asli dan hasil operasi Mean Filter
cv2.imshow('Citra Digital Asli', img)
cv2.imshow('Hasil Operasi Mean Filter', img_mean)
cv2.waitKey(0)
cv2.destroyAllWindows()
```
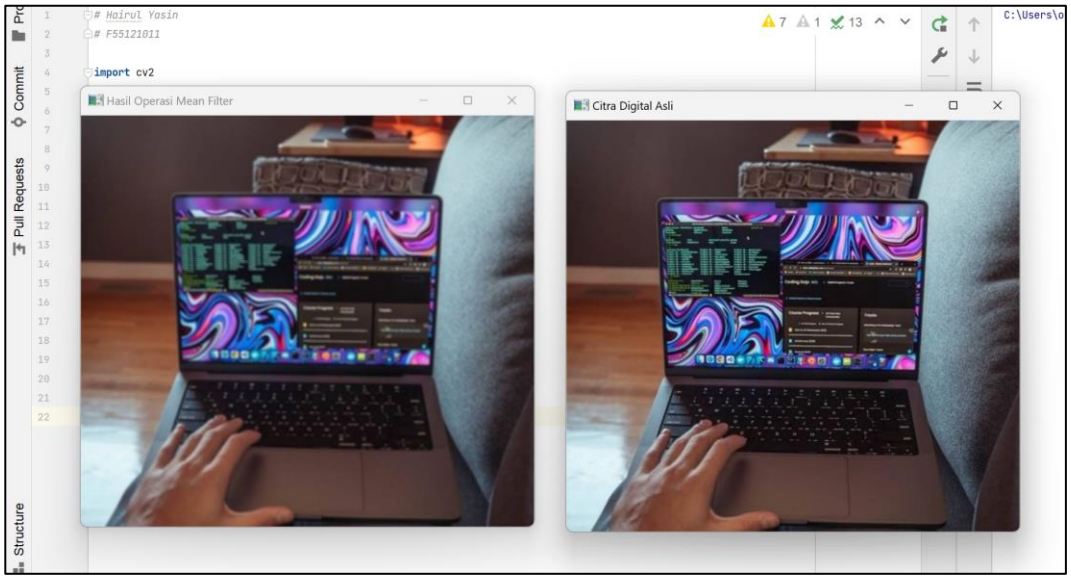

Hasil

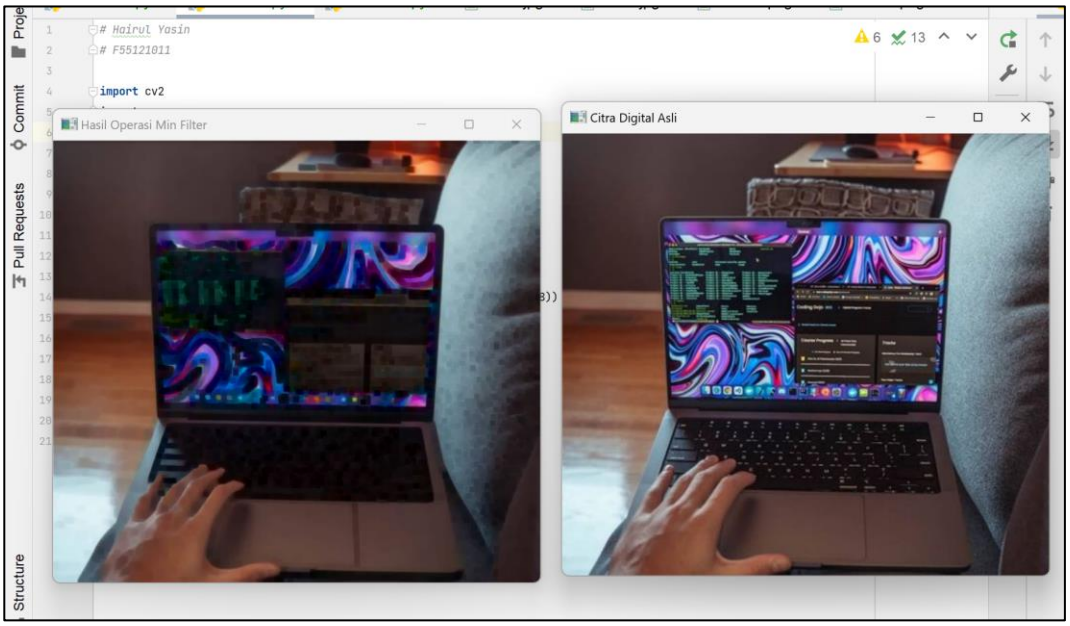


2. Min Filter

Kode Program

```python
# Hairul Yasin
# F55121011

import cv2
import numpy as np

# Load citra digital
img = cv2.imread('IMG1.jpg')

# Tentukan ukuran kernel
kernel_size = 5

# Lakukan operasi Min Filter
img_min = cv2.erode(img, np.ones((kernel_size, kernel_size), np.uint8))

# Tampilkan citra digital asli dan hasil operasi Min Filter
cv2.imshow('Citra Digital Asli', img)
cv2.imshow('Hasil Operasi Min Filter', img_min)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Hasil



3. Max Filter

Kode Program

```python
# Hairul Yasin
# F55121011

import cv2
import numpy as np

# Load citra digital
img = cv2.imread('IMG1.jpg')

# Tentukan ukuran kernel
kernel_size = 5

# Lakukan operasi Max Filter
img_max = cv2.dilate(img, np.ones((kernel_size, kernel_size), np.uint8))

# Tampilkan citra digital asli dan hasil operasi Max Filter
cv2.imshow('Citra Digital Asli', img)
cv2.imshow('Hasil Operasi Max Filter', img_max)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Hasil