Nama: Muhamad Raehan

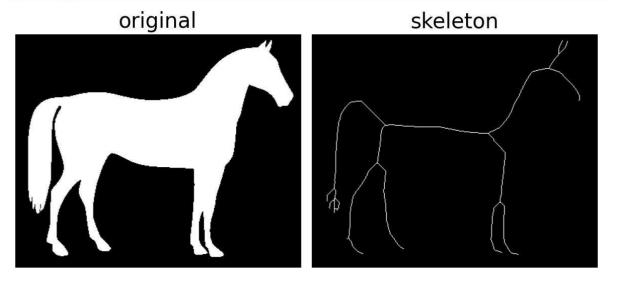
Kelas: TI.22.A.2

NIM: 312210266

Matkul: Pengolahan Citra

```
from skimage.morphology import skeletonize
from skimage import data
import matplotlib.pyplot as plt
from skimage.util import invert

#Invert the horse image
image = invert (data.horse())
#perform skeletonization
skeleton = skeletonize(image)
#display results
fig, axes = plt.subplots (nrows=1, ncols=2,figsize=(8, 4),sharex=True,sharey=True)
ax = axes.ravel ()
ax[0].imshow(image, cmap=plt.cm.gray)
ax[0].axis ('off')
ax[0].set_title('original', fontsize=20)
ax[1].imshow(skeleton, cmap=plt.cm.gray)
fax[1].axis ('off')
ax[1].set_title('skeleton', fontsize=20)
fig.tight_layout ()
plt.show()
```





```
import numpy as np
    from skimage.color import rgb2gray
    from skimage import data
    from skimage.filters import gaussian
 6 from skimage.segmentation import active_contour
 9 img = data.astronaut()
10 img_gray = rgb2gray(img)
13 s = np.linspace(0, 2 * np.pi, 400)
14 x = 220 + 100 * np.cos(s)
15 y = 100 + 100 * np.sin(s)
    init = np.array([x, y]).T
19 cntr = active_contour(gaussian(img_gray, 3), init, alpha=0.015, beta=10, gamma=0.001)
22 fig, ax = plt.subplots(1, 2, figsize=(7, 7))
23 ax[0].imshow(img_gray, cmap=plt.cm.gray)
24 ax[0].set_title("Original Image")
    ax[1].imshow(img_gray, cmap=plt.cm.gray)
26 ax[1].plot(init[:, 0], init[:, 1], '--r', lw=3)
27 ax[1].plot(cntr[:, 0], cntr[:, 1], '-b', lw=3)
28 ax[1].set_title("Active Contour Image")
   plt.show()
```

