Caesar Noor .S.A.

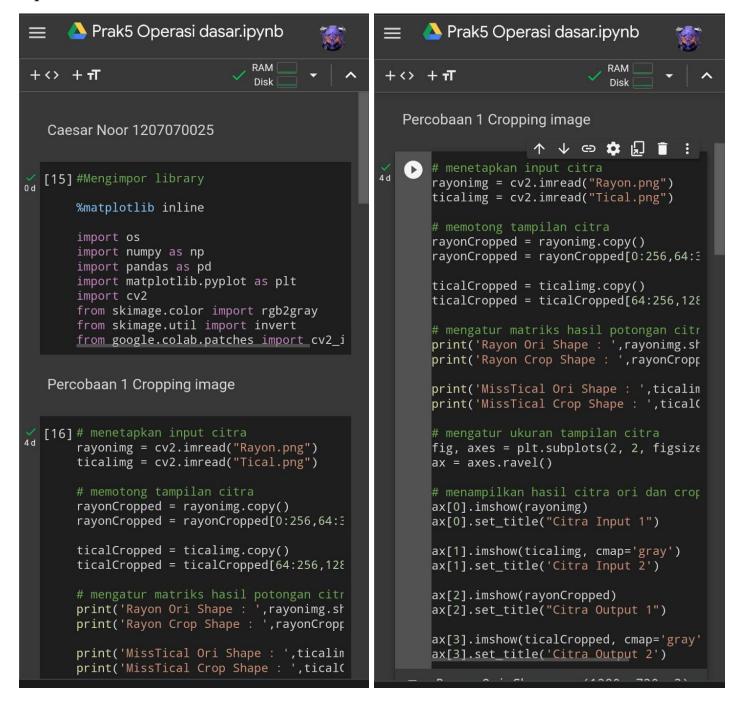
1207070025

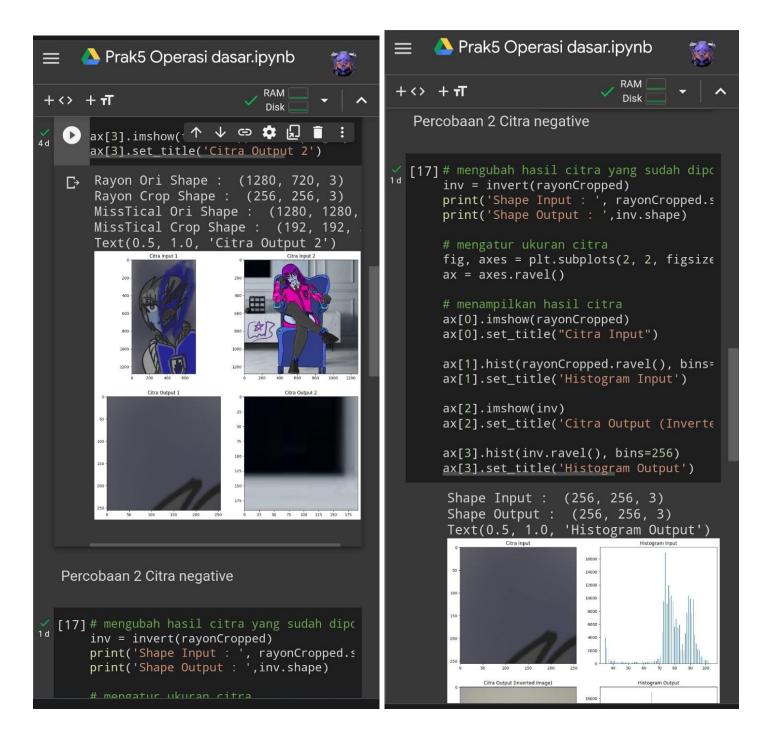
Praktikum 5

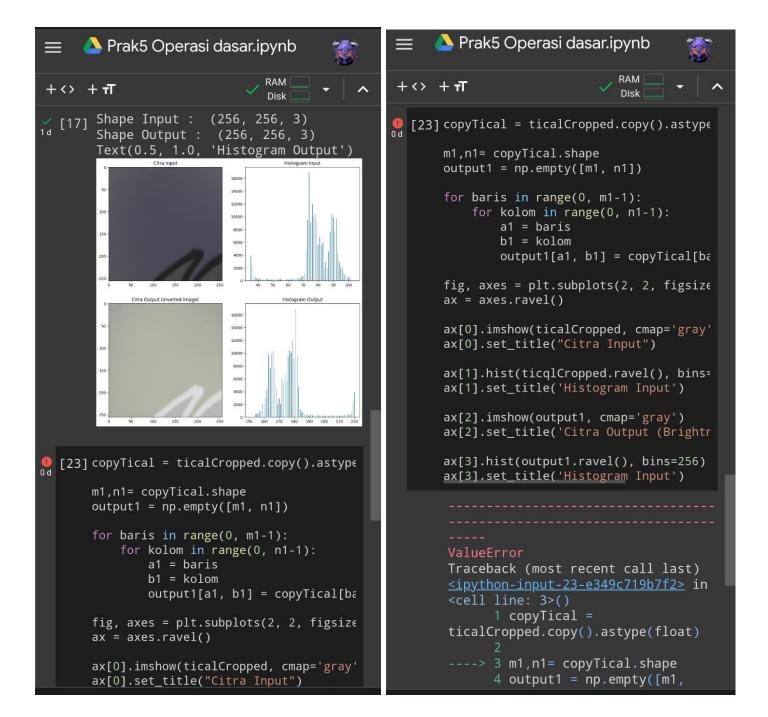
PCD

Hasil Screenshot:

Operasi Dasar





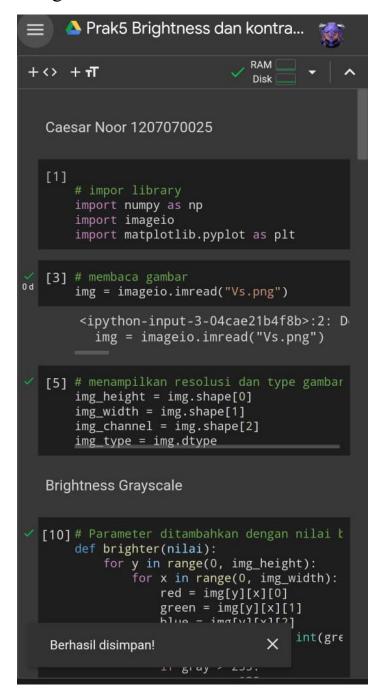




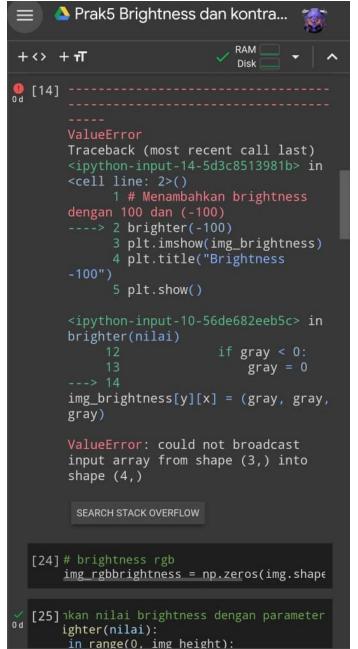


```
RAM
+ \leftrightarrow + \pi
                                Disk
               DI = KOTOM
 [23]
               output1[a1, b1] = copyTical[ba
      fig, axes = plt.subplots(2, 2, figsize
      ax = axes.ravel()
      ax[0].imshow(ticalCropped, cmap='gray'
      ax[0].set_title("Citra Input")
      ax[1].hist(ticqlCropped.ravel(), bins=
      ax[1].set_title('Histogram Input')
      ax[2].imshow(output1, cmap='gray')
      ax[2].set_title('Citra Output (Brightr
      ax[3].hist(output1.ravel(), bins=256)
      ax[3].set_title('Histogram Input')
       ValueError
       Traceback (most recent call last)
       <ipython-input-23-e349c719b7f2> in
       <cell line: 3>()
              1 copyTical =
       ticalCropped.copy().astype(float)
       ---> 3 m1,n1= copyTical.shape
             4 \text{ output1} = \text{np.empty}([m1,
       n1])
       ValueError: too many values to
       unpack (expected 2)
        SEARCH STACK OVERFLOW
```

Brightness & Contrass



```
🏊 Prak5 Brightness dan kontra...
                                RAM
+ \leftrightarrow + \tau T
                                Disk
  Brightness Grayscale
 [10] # Parameter ditambahkan dengan nilai t
      def brighter(nilai):
           for y in range(0, img_height):
               for x in range(0, img_width):
                   red = img[y][x][0]
                   green = img[y][x][1]
                   blue = img[y][x][2]
                   gray = (int(red) + int(gre
                   gray += nilai
                   if gray > 255:
                       gray = 255
                   if gray < 0:
                       gray = 0
                   img_brightness[y][x] = (gr
 [14] # Menambahkan brightness dengan 100 da
      brighter(-100)
      plt.imshow(img_brightness)
      plt.title("Brightness -100")
      plt.show()
      brighter(100)
      plt.imshow(img_brightness)
      plt.title("Brightness 100")
      plt.show()
       ValueError
       Traceback (most recent call last)
       <ipython-input-14-5d3c8513981b> in
             1 # Menambahkan brightness
       dengan 100 dan (-100)
```



```
🃤 Prak5 Brightness dan kontra...
                                RAM
+ \leftrightarrow + \tau T
                                Disk
 [24] # brightness rgb
      img_rgbbrightness = np.zeros(img.shapϵ
 [25] ıkan nilai brightness dengan parameter
      ighter(nilai):
       in range(0, img_height):
      or x in range(0, img_width):
         red = img[y][x][0]
         red += nilai
         if red > 255:
             red = 255
         if red < 0:
             red = 0
         green = img[y][x][1]
         green += nilai
         if green > 255:
             green = 255
         if green < 0:
             green = 0
         blue = img[y][x][2]
         blue += nilai
         if blue > 255:
             blue = 255
         if blue < 0:
             blue = 0
         img_rgbbrightness[y][x] = (red, gre
 [27] # menampilkan hasil gambar btightness
      rgbbrighter(-100)
      plt.imshow(img_rgbbrightness)
      plt.title("Brightness -100")
      plt.show()
      rgbbrighter(100)
      plt.imshow(img_rgbbrightness)
      plt.title("Brightness 100")
      plt.show()
```

