```
import os
import cv2
import numpy as np
from google.colab import files
uploaded = files.upload()
     Choose Files No file chosen
<del>_</del>
                                          Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to
     enable.
     Saving Rrain ineg to Rrain ineg
image = cv2.imread(r'Brain.jpeg')
from google.colab.patches import cv2_imshow
cv2_imshow(image)
₹
gray_image = cv2.cvtColor(image,cv2.COLOR_BGR2GRAY)
cv2_imshow(gray_image)
\overline{\Rightarrow}
print(gray_image.shape, gray_image.dtype, type(gray_image))
print(np.mean(gray_image))
print(np.sum(gray_image))
print(np.mean(gray_image)/ np.std(gray_image))
print(np.max(gray_image))
print(np.min(gray_image))
     (168, 300) uint8 <class 'numpy.ndarray'>
     31.972023809523808
     1611390
     0.49015966605104544
     241
     0
BrightImg = gray_image+25
ConcatImage = cv2.hconcat([gray_image,BrightImg])
cv2_imshow(ConcatImage)
cv2.waitKey(0)
cv2.destroyAllWindows()
\overline{\Rightarrow}
```

NegativeImg = 255-gray_image
cv2_imshow(NegativeImg)
cv2.waitKey(0)
cv2.destroyAllWindows()





gray_matrix = np.array(gray_image)

print (gray_matrix)

Show hidden output