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#import libraries needed for script
from PIL import Image,ImageEnhance
#pillow for image manipulation

import glob
#glob is used to read images in the specified directory

import numpy as np
#numpy aids in concatenating old and new images

#using glob library, read the lab images from folder
image_files = glob.glob(
   r'Images\*.*'
)

#create an array of the file paths of images
images = []
for image in image_files:
   images.append(image)

#loop the file paths to exclude directories in file paths to get only filename
for im in images:
   #use string.split attribute to read actual filename
   image_split = im.split('\\')
   image_name = image_split[1]

   #load image for enhancement
   imo = Image.open(im)
   enhancer = ImageEnhance.Brightness(imo)
   factor = 1.5 #gives original image
   im_bright = enhancer.enhance(factor)
```

```
#save brightened image to directory
im_bright.save(image_name + '_brightened.jpg')

#display old and new image
Image.fromarray(np.hstack((np.array(imo),np.array(im_bright)))).show()
```