Computer Vision HW1

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Part1





```
def upside2down(image,width,height):
 img_result = image.copy()
 for i in range(width):
     img_result[i,:] = image[width-i-1,:]
 save_image('Upside-down',img_result)
 return img_result
```

def right2left(image,width,height):
img_result = image.copy()
for i in range(height):
 img_result[:,i] = image[:,height-i-1]
save_image('Right-side-left',img_result)
return img_result

(a) Upside-down





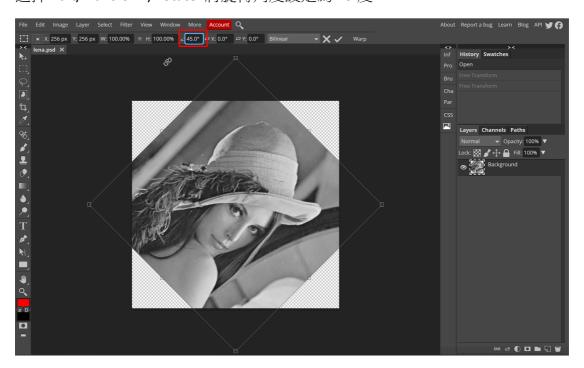
(c) Diagonally flip

Part2

我使用的是線上的一款線上 PS 工具叫做 Photopea,在瀏覽器上面就可以對圖像做處理。網址如下:https://www.photopea.com/

(d) Rotate lena.bmp 45 degrees clockwise

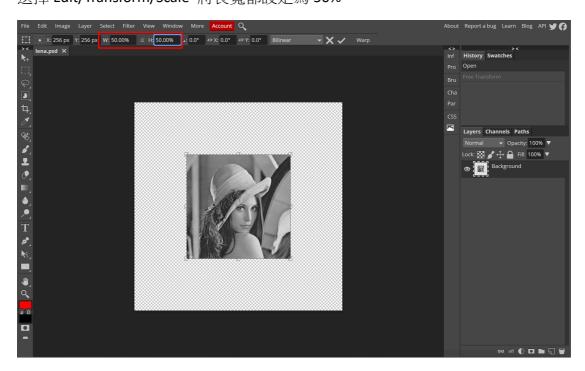
選擇 Edit/Transform/Rotate 將旋轉角度設定為 45 度





(e) Shrink lena.bmp in half

選擇 Edit/Transform/Scale 將長寬都設定為 50%





(f) Binarize lena.bmp at 128 to get a binary image

選擇 Image/Adjustments/Threshold 設定為 128

