使用 Python , OpenCV 完成

(a)   (b)

(c)

Part2

利用線上軟體 photopea 完成(https://www.photopea.com/)

(d)   (e)

(f)

使用 Python , OpenCV 完成

(a)

```
import cv2
img = cv2.imread('lena.bmp')
image = cv2.imread('lena.bmp')
row,col,typ = img.shape
for i in range(0,row):
      for j in range(0,col):
            image[i][j] = img[row-i-1][j]
cv2.imshow('vetical', image)
cv2.imwrite('vetical.jpg', image)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

(b)

```
import cv2
img = cv2.imread('lena.bmp')
image = cv2.imread('lena.bmp')
row,col,typ = img.shape
for i in range(0,row):
      for j in range(0 , col):
            image[i][j] = img[i][col-j-1]
cv2.imshow('horizontal', image)
cv2.imwrite('horizontal.jpg', image)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

(c)

```
import cv2
img = cv2.imread('lena.bmp')
image = cv2.imread('lena.bmp')
row,col,typ = img.shape
for i in range(0,row):
      for j in range(0 , col):
            image[i][j] = img[col-j-1][row-i-1]
cv2.imshow('diagonal flip', image)
cv2.imwrite('diagonal flip.jpg', image)
cv2.waitKey(0)
cv2.destroyAllWindows()
```