In [3]:
```
import numpy as np
from matplotlib import pyplot as plt
import cv2 as cv
```

Increase Brightness

In [4]:
```
pixel = float(10)
cam = cv.VideoCapture(0)

while True:
    _, img = cam.read()
    img = cv.flip(img , 1)

    img_1 = img + pixel
    img_1[img_1 < 0] = 0
    img_1[img_1 > 255] = 255
    img_1 = img_1.astype(np.uint8)

    img_2 = img + (6 * pixel)
    img_2[img_2 < 0] = 0
    img_2[img_2 > 255] = 255
    img_2 = img_2.astype(np.uint8)

    img_3 = img + (12 * pixel)
    img_3[img_3 < 0] = 0
    img_3[img > 255] = 255
    img_3 = img_3.astype(np.uint8)

    cv.imshow("normal" , img)
    cv.imshow("img_1" , img_1)
    cv.imshow("img_2" , img_2)
    cv.imshow("img_3" , img_3)

    if cv.waitKey(1) & 0xFF == ord("a"):
        break

cam.release()
cv.destroyAllWindows()
```

Decrease Brightness

In [6]:
```
pixel = float(12)

cam = cv.VideoCapture(0)

while True:
    _ , img = cam.read()
    img = cv.flip(img , 1)

    img_1 = img - pixel
    img_1[img_1 < 0] = 0
    img_1[img_1 > 255] = 255
    img_1 = img_1.astype(np.uint8)

    img_2 = img - (3 * pixel)
    img_2[img_2 < 0] = 0
    img_2[img_2 > 255] = 255
```

```
    img_2 = img_2.astype(np.uint8)

    img_3 = img - (6 * pixel)

    img_3[img_3 < 0] = 0
    img_3[img_3 > 255] = 255
    img_3 = img_3.astype(np.uint8)

    cv.imshow("normal" , img)
    cv.imshow("img_1" , img_1)
    cv.imshow("img_2" , img_2)
    cv.imshow("img_3" , img_3)

    if cv.waitKey(1) & 0xFF == ord("s"):
        break

cam.release()
cv.destroyAllWindows()
```

In [ ]: