

LetsGrowMore

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Level : Beginner

Task 2 - IMAGE TO PENCIL SKETCH

- 1.We need to read the image in RGB format and then convert it to a grayscale image. This will turn an image into a classic black and white photo.
- 2.then the next thing to do is invert the grayscale image also called Negative image,this will be our inverted grayscale image
- 3.Inversion can be used to enhance details.
- 4.Then we can finally create the Pencil sketch by mixing the grayscale image with the inverted blurry image.
- 5.This canbe done by dividing the gray scale image by the inverted blurry image.
- 6.Since images are just arrays, we can easily do this programmatically using the divide function from the cv2 library in python.¶¶

```
In [1]: import cv2
In [2]: from PIL import Image
In [3]: img = cv2.imread('flower.jpg')
In [4]: display(Image.fromarray(img))
```



```
In [5]: gray_filter = cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
In [6]: display(Image.fromarray(gray_filter))
```



```
In [7]: invert = cv2.bitwise_not(gray_filter)
In [8]: display(Image.fromarray(invert))
```



```
In [9]: blur_filter = cv2.GaussianBlur(invert, (21,21),sigmaX=0,sigmaY=0)
In [10]: display(Image.fromarray(blur_filter))
```



```
In [11]: def dodgeV2(x,y):
         return cv2.divide(x,255-y,scale=256)
In [12]: final_img = dodgeV2(gray_filter,blur_filter)
         display(Image.fromarray(final_img))
```



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In [ ]:
In [ ]:
In [ ]:
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