#LetsGrowMore Nov2021 internship #Task2 : Image to Pencil Sketch with Python Level : Beginner Language : Python Environment :jupyter notebook Task description: We need to read the image in RBG format and then convert it to a grayscale image. This will turn an image into a classic black and white photo. Then the next thing to do is invert the grayscale image also called negative image, this will be our inverted grayscale image. Inversion can be used to enhance details. Then we can finally create the pencil sketch by mixing the grayscale image with the inverted blurry image.

In [10]: import matplotlib.pyplot as plt import cv2 from PIL import Image from IPython.display import display

In [15]: # in this we read image from our directory and show on notebook via matplolib img="C:/Users/KORRA SRINU/Desktop/letsgrowmore/vce.jpg" ri=cv2.imread(img) display(Image.fromarray(ri))



After reading the image, we will create a new image by converting the original image to greyscale.

In [17]: img gray=cv2.cvtColor(ri,cv2.COLOR BGR2GRAY) display(Image.fromarray(img\_gray))



next step is to invert the new grayscale image.

In [18]: img\_invert=cv2.bitwise\_not(img\_gray) display(Image.fromarray(img\_invert))



The next step in the process is to blur the image by using the Gaussian Function in OpenCV.

In [19]: img\_smoothing=cv2.GaussianBlur(img\_invert,(21,21),sigmaX=0,sigmaY=0) display(Image.fromarray(img smoothing))



The final step is to invert the blurred image, then we can easily convert the image into a pencil sketch.

return cv2.divide(x,255-y,scale=256)
final\_img=vce(img\_gray,img\_smoothing)
display(Image.fromarray(final\_img))



In [ ]:

Loading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js