LetsGrowMore Data Science Internship

Beginner Level - TASK 4

Image to Pencil Sketch with Python:

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```
In [2]: import cv2

In [3]: import cv2
import matplotlib.pyplot as plt
```

Read the image in RBG format

```
In [9]: image = cv2.imread("bab pic.jpg")
    cv2.imshow("Original image of the Plane", image)
    cv2.waitKey(0)
```

Out[9]: -1

Converting the image to GrayScale Image

Inversion of the Grayscale image

Blurring the Inverted Grayscale

```
In [12]: blurred = cv2.GaussianBlur(Inverted_image, (51, 51), 0)
    cv2.imshow("Blur InvertedGreyscale",blurred)
    cv2.waitKey(0)
```

Inverting the blurred Inverted Grayscale

Create the pencil sketch by mixing the grayscale image with the inverted blurry image.

This can be done by dividing the grayscale image by the inverted blurry image.

```
In [14]:    pencil_sketch = cv2.divide(Grayscale_image, Inverted_blurred, scale=256)
        cv2.imshow("Sketch", pencil_sketch)
        cv2.waitKey(0)
Out[14]: -1
```

Displaying both the original image and the pencil sketch

THANK YOU