LetsGrowMore Data Science Internship

Beginner Level - TASK 4

Image to Pencil Sketch with Python:

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Importing Libraries

```
import cv2
import matplotlib.pyplot as plt
```

Read the image in RBG format

```
In [20]:
    RGB_image = cv2.cvtColor(image, cv2.COLOR_BGR2RGB)
    plt.imshow(RGB_image)
    plt.title('Original Image of Plane')
    plt.axis('off')
    plt.show()
```

Original Image of Plane

Converting the image to GrayScale Image

```
In [21]:
    Grayscale_image = cv2.cvtColor(image, cv2.CoLOR_BGR2GRAY)
    cv2.imshow("New Plane", Grayscale_image)
    cv2.waitKey()
```

Out[21]: -1

Inversion of the Grayscale image

Blurring the Inverted Grayscale

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.

```
pencil_sketch = cv2.divide(Grayscale_image, Inverted_blurred, scale=256)
cv2.imshow("Sketch", pencil_sketch)
cv2.waitKey(0)
```

Displaying both the original image and the pencil sketch

```
In [26]:
    cv2.imshow("Original Image", image)
    cv2.imshow("pencil sketch", pencil_sketch)
    cv2.waitKey(0)
```

Out[26]: -

Out[25]:

THANK YOU