LetsGrowMore Datascience Internship

Begginner Level -TASK 4 Image to Pencil

Sketch with python :

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Read the RBG image file

In [8]:
```python
import cv2
import matplotlib.pyplot as plt
image = cv2.imread("dog.jpg")
cv2.imshow("Original image of the cat", image)
cv2.waitKey(0)
```

Out[8]:
```
-1
```

Convert image to grayscale image

In [ ]:
```python
Grayscale_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
cv2.imshow("New Plane", Grayscale_image)
cv2.waitKey()
```

Inversion of Greyscale

In [ ]:
```python
Inverted_image = 255 - Grayscale_image
cv2.imshow("Inverted GreyScale Plane", Inverted_image)
cv2.waitKey()
```

Blur Inverted Greyscale

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

Inverting the Blurring Inverted Greyscale

```
In [ ]:  Inverted_blurred = 255 - blurred
         cv2.imshow("Inverting the Blur Inverted Greyscale", Inverted_image)
         cv2.waitKey(0)
```

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

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

```
In [ ]:
```

```
In [ ]:
```