Name- Sandipan Mukherjee

LETSGROWMORE INTERNSHIP :

01) BEGINNER LEVEL TASK -

4) Image to Pencil Sketch with Python:

Import library

In [9]:
```python
import cv2
```

Read and Show the Image :

In [10]:
```python
image = cv2.imread("puppy.jpg")
cv2.imshow("Original image", image)
cv2.waitKey(0)
```

Out[10]: -1

original image to gray scale :

In [11]:
```python
gray_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
cv2.imshow("Gray scale image", gray_image)
cv2.waitKey(0)
```

Out[11]: -1

Invert the new gray scale image :

In [12]:
```python
inverted_gray_image = 255 - gray_image
cv2.imshow("Inverted image", inverted_gray_image)
cv2.waitKey(0)
```

Out[12]: -1

Blur the image by using the Gaussian Function :

In [13]:
```python
blurred_image = cv2.GaussianBlur(inverted_gray_image, (21, 21), 0)
```

Invert the blurred image :

In [14]:
```python
inverted_blurred_image = 255 - blurred_image
```

Convert the image into a pencil sketch:

In [15]:
```python
pencil_sketch_image = cv2.divide(gray_image, inverted_blurred_image, scale=256.0)
cv2.imshow("Sketch", pencil_sketch_image)
cv2.waitKey(0)
```

Out[15]: -1

Original image and the pencil sketch image :

In [16]:
```python
cv2.imshow("original image", image)
cv2.imshow("pencil sketch", pencil_sketch_image)
cv2.waitKey(0)
```

Out[16]: -1

In [ ]: