IMAGE TO PENCIL SKETCH WITH PYTHON

DONE BY

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Importing CV2

In [4]:
```
import cv2 as c
```

Reading the image by giving the location

In [25]:
```
img = c.imread("C:/Users/Irfaan/Desktop/cat.png")
```

Showing the image

In [74]:
```
c.imshow("originalfile", img)
c.waitKey(0)
```

Out[74]:
```
-1
```

Coverting the image to greyscale

In [54]:
```
gray_image = c.cvtColor(img,c.COLOR_BGR2GRAY)
```

Displaying the greyscale image

In [75]:
```
c.imshow("grayfile",gray_image)
c.waitKey(0)
```

Out[75]:
```
-1
```

Inverting the gray image

In [46]:
```
invert_image = 255-grey_image
```

Displaying the inverted Gray image

In [76]:
```
c.imshow("Inverted image", invert_image)
c.waitKey(0)
```

Out[76]:
```
-1
```

Blurring the image by using Gaussian Function

In [48]:
```
blurred_image = c.GaussianBlur(invert_image, (21,21),0 )
```

Displaying the blurred Image

In [77]:
```
c.imshow("Blurred Image", blurred_image)
c.waitKey(0)
```

Out[77]:
```
-1
```

Inverting the blurred image

In [50]:
```
inverted_blurred_image = 255-blurred_image
```

Displaying the inverted blurred image

In [78]:
```
c.imshow("Inverted Blurred Image", inverted_blurred_image)
c.waitKey(0)
```

Out[78]:
```
-1
```

Creating the pencil sketch image

In [57]:
```
pencil_sketch= c.divide(gray_image,inverted_blurred_image, scale=256.0)
```

Displaying the pencil sketch

In [79]:
```
c.imshow("Pencil sketch", pencil_sketch)
c.waitKey(0)
```

Out[79]:
```
-1
```