

In [1]:

```
pip install opencv-python
```

Requirement already satisfied: opencv-python in c:\users\atharva\anaconda3\lib\site-packages (4.6.0.66)

Requirement already satisfied: numpy>=1.19.3 in c:\users\atharva\anaconda3\lib\site-packages (from opencv-python) (1.20.3)

Note: you may need to restart the kernel to use updated packages.

In [7]:

```
import cv2
```

In [8]:

```
image = cv2.imread("baby.jpg")
cv2.imshow("Kid", image)
cv2.waitKey
```

Out[8]:

<function waitKey>

In [9]:

```
gray_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
cv2.imshow("New Baby", gray_image)
cv2.waitKey(0)
```

Out[9]:

-1

In [10]:

```
inverted_image = 255 - gray_image
cv2.imshow("Inverted", inverted_image)
cv2.waitKey()
```

Out[10]:

-1

In [11]:

```
blurred = cv2.GaussianBlur(inverted_image, (21,21),0)
```

In [12]:

```
inverted_blurred = 255 - blurred  
pencil_sketch = cv2.divide(gray_image, inverted_blurred, scale = 256.0)  
cv2.imshow("Sketch", pencil_sketch)  
cv2.waitKey(0)
```

Out[12]:

-1

In [13]:

```
cv2.imshow("original image",image)  
cv2.imshow("pencil sketch", pencil_sketch)  
cv2.waitKey(0)
```

Out[13]:

-1

In []: