IMAGE TO SKETCH CONVERTER

```
#Step - 1 - Load Libraries and Image
#Step - 2 - Converte Image into Gray Scale
#Step - 3 - Inveted Gary Scale Image [For
Shifting toward selected channel]
#Step - 4 - Apply Image Smooting For Shading
effect
#Step - 5 - Invert Blur Image and Apply
division between gray and invert_blur.
#Step-1
import numpy as np
import cv2
#Read Image-----
img = cv2.imread("hulk.jpg")
img = cv2.resize(img,(800,600))
#Create Trackbar----
def nothing(x):
    pass
```

```
#window name
cv2.namedWindow("Color
Adjustments", cv2.WINDOW NORMAL)
cv2.resizeWindow("Color Adjustments", (300,
300))
cv2.createTrackbar("Scale", "Color
Adjustments", 0, 255, nothing)
cv2.createTrackbar("Color", "Color
Adjustments", 0, 255, nothing)
#Step -2
#Convert into gray--
gray = cv2.cvtColor(img,cv2.COLOR BGR2GRAY)
while True:
    scale = cv2.getTrackbarPos("Scale",
"Color Adjustments")
    clr = cv2.getTrackbarPos("Color", "Color
Adjustments") #getting track bar value
    #Extracting Color Code --
    #Step - 3
    inverted_gray = clr - gray #inverted
color image
    #Step -4
```

```
blur_img =
cv2.GaussianBlur(inverted_gray,(21,21),0)
    #Step -5
    inverted blur = clr - blur_img #inverted
blured image
   fltr =
cv2.divide(gray,inverted_blur,scale = scale)
    #Output----
    cv2.imshow("opt",fltr)
    k = cv2.waitKey(1)
    if k == ord("q"):
        break
    if k == ord("s"):
        cv2.imwrite("res.jpg",fltr)
cv2.destroyAllWindows()
```