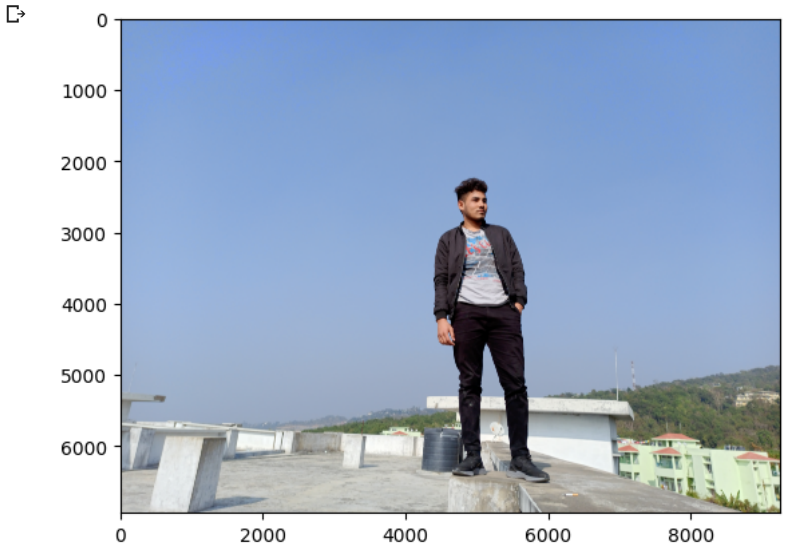
TASK-3 : Image to Pencil Sketch with Python

NAME - SURAJ SARKI

```
import cv2
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings('ignore')
```

```
# Read Image

image = cv2.imread("/content/suraj_photo.jpg")
```

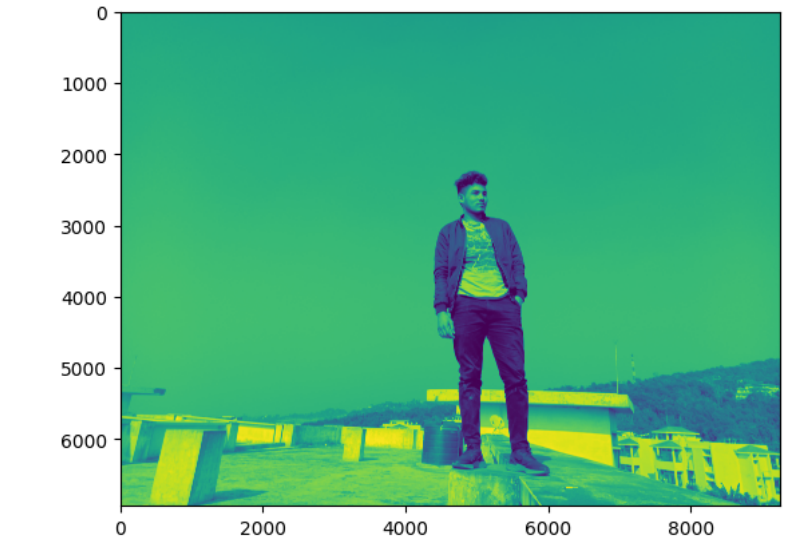
```
# display image and read the image in RGB format

image1= cv2.cvtColor(image, cv2.COLOR_BGR2RGB)
plt.imshow(image1)
plt.axis = False
plt.show()
```



Converting original image to greyscale image

```
grey_scale_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
plt.imshow(grey_scale_image)
```

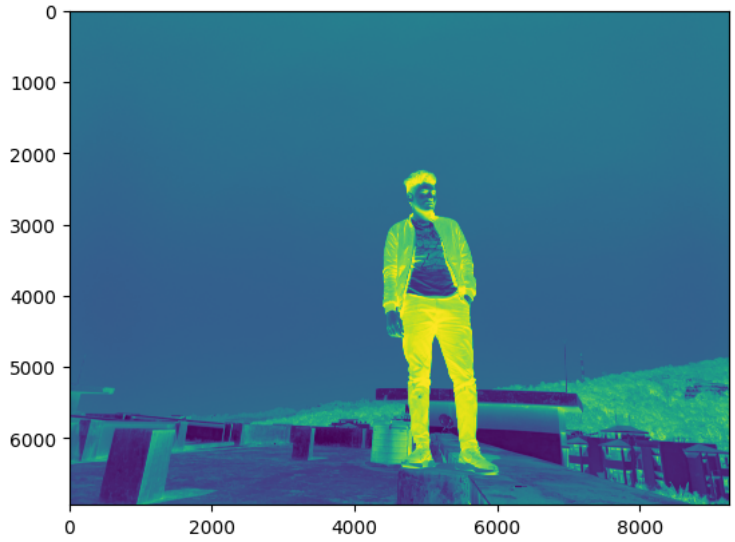
```
<matplotlib.image.AxesImage at 0x7b55d7f8a260>
```



Inverting image

```
inverted_image = cv2.bitwise_not(grey_scale_image)
plt.imshow(inverted_image)
```

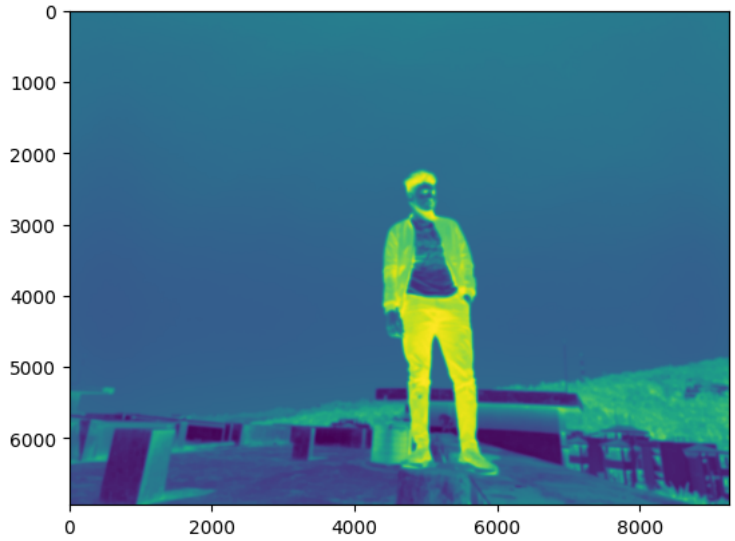
```
<matplotlib.image.AxesImage at 0x7b55d8031870>
```



Blur image by using the Gaussian Function

```
blur_image = cv2.GaussianBlur(inverted_image, (111, 111), 0)
plt.imshow(blur_image)
```

```
<matplotlib.image.AxesImage at 0x7b55b7300760>
```



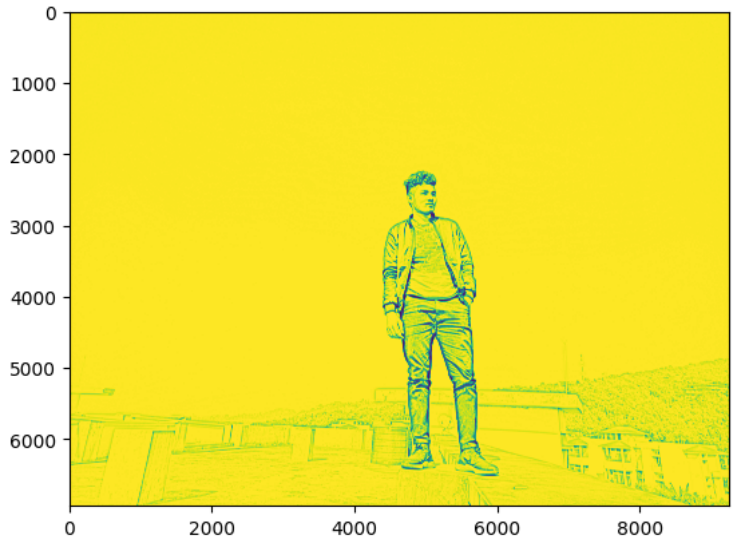

```
inverted_blur_image = cv2.bitwise_not(blur_image)
plt.imshow(inverted_blur_image)
```

```
<matplotlib.image.AxesImage at 0x7b55b331d840>
```

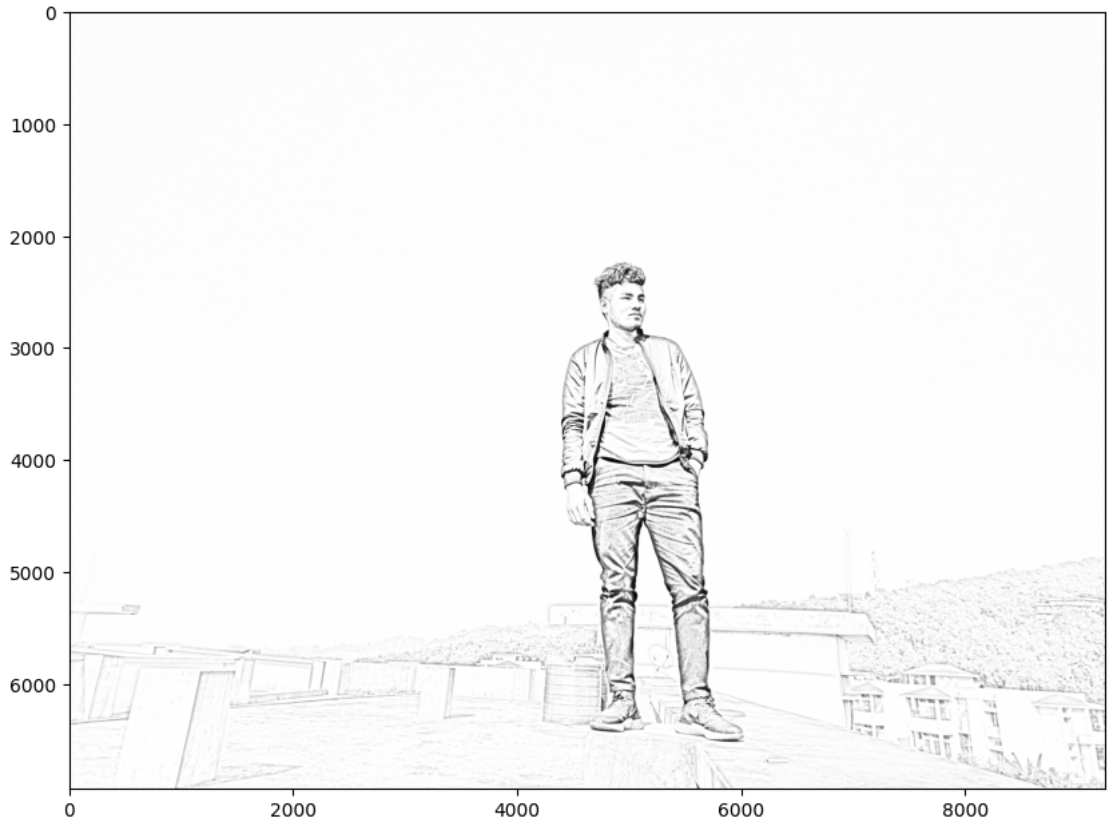


```
#  inverting blur image for pencil sketch

sketch_image = cv2.divide(grey_scale_image, inverted_blur_image, scale = 256.0)
plt.imshow(sketch_image)
```

```
<matplotlib.image.AxesImage at 0x7b55b33c9ab0>
```




```
# Final Image

plt.figure(figsize = (10, 8))
final_image = cv2.cvtColor(sketch_image, cv2.COLOR_RGB2BGR)
plt.imshow(final_image)
# plt.axis(False)
plt.show()
```




```
Hello #connections !

Excited to share that I've completed the 4th task of #data Science Internship.

Lvl. 1 at #letsgrowmorecommunity (LGM) #community with LetsGrowMore

Task: Image to Pencil Sketch with Python.
```

```
I Learned Alot from this task. I would like to thank Aman Kesarwani & LetsGrowMore for providing me with this great opportunity
and help me to learn and build my portfolio in a proper manner #lgmvip.
```