## **LETSGROWMORE**

## TASK 3 - Image to Pencil Sketch with Python

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```
In [1]: import cv2
import matplotlib.pyplot as plt
import numpy as np
plt.style.use('seaborn')

In [8]: img=cv2.imread('The-most-stunning-beaches-in-Kerala.jpg')
img=cv2.cvtColor(img,cv2.COLOR_BGR2RGB)

plt.figure(figsize=(8,8))
plt.axis("off")
plt.title("Original Image")
plt.imshow(img)
```

Out[8]: <matplotlib.image.AxesImage at 0x23f11698160>



```
img_gray=cv2.cvtColor(img,cv2.COLOR_RGB2GRAY)
plt.figure(figsize=(8,8))
plt.axis("off")
plt.imshow(img_gray)
plt.title("GrayScale Image")
plt.show()
```



```
img_invert=255-img_gray
plt.figure(figsize=(8,8))
plt.axis("off")
plt.imshow(img_invert)
plt.title("Inverted Image")
```

plt.show()

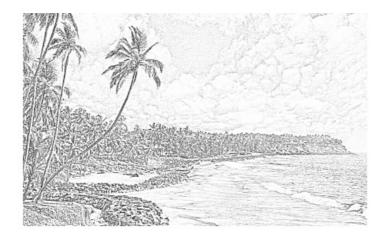
Inverted Image



```
blurred_image=cv2.GaussianBlur(img_invert, (21,21), 0)
inv_blurred=255-blurred_image
plt.figure(figsize=(8,8))
plt.axis("off")
plt.imshow(inv_blurred)
plt.title("Smoothen Image")
plt.show()
```



Final Sketch Image



```
In [13]:
           plt.figure(figsize=(20,20))
           plt.subplot(1,5,1)
           plt.imshow(img)
plt.axis("off")
           plt.title("Original Image")
           plt.subplot(1,5,2)
           plt.imshow(img_gray)
plt.axis("off")
           plt.title("GrayScale Image")
plt.subplot(1,5,3)
           plt.imshow(img_invert)
           plt.axis("off")
           plt.title("Inverted Image")
           plt.subplot(1,5,4)
           plt.imshow(blurred_image)
           plt.axis("off")
           plt.title("Smoothen Image")
           plt.subplot(1,5,5)
           plt.imshow(final_sketch,cmap="gray")
           plt.axis("off")
           plt.title("Final Sketch Image")
           plt.show()
```











In [ ]:

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