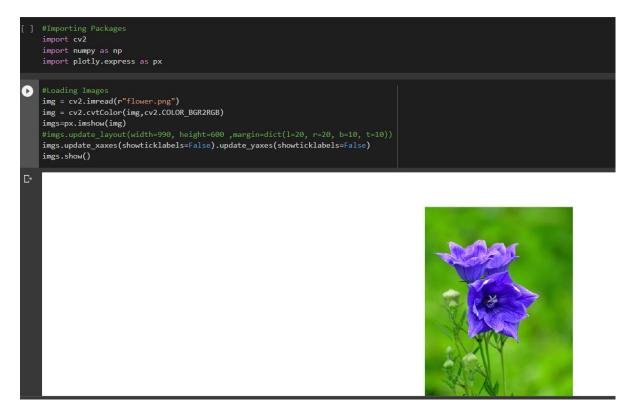
LGMVIP-TASK 04

IMAGE TO PENCIL SKETCH

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```
#Resizing image shape
scale_percent = 0.60
width = int(img.shape[1]*scale_percent)
height = int(img.shape[0]*scale_percent)
dim = (width,height)
resized = cv2.resize(img,dim,interpolation = cv2.INTER_AREA)
res=px.imshow(resized)
res.update_xaxes(showticklabels=False).update_yaxes(showticklabels=False)
res.show()
```



```
[ ] #Converting an image into gray_scale image
grayscale = cv2.cvtColor(sharpened , cv2.ColOR_BGR2GRAY)
gray = px.inshow(grayscale, color_continuous_scale='gray')
gray.update_xaxes(showticklabels=False).update_yaxes(showticklabels=False)
gray.show()
```



250

50

#Smoothing the image gauss = cv2.GaussianBlur(invs,ksize=(15,15),sigmaX=0,sigmaY=0) gaus=px.imshow(gauss,color_continuous_scale='gray') gaus.update_xaxes(showticklabels=False).update_yaxes(showticklabels=False) gaus.show()



```
[] #Obtaining the final sketch

def dodgeV2(image_mask):
    return cv2.divide(image,255-mask,scale=256)

pencil_img = dodgeV2(grayscale,gauss)
    sketch=px.imshow(pencil_img,color_continuous_scale='gray')
    #sketch.update_layout(width=990, height=600 ,margin=dict(l=20, r=20, b=10, t=10))
    sketch.update_layout(coloraxis_showscale=False)
    sketch.update_xaxes(showticklabels=False).update_yaxes(showticklabels=False)
    sketch.show()
```

