

# PIL- Python Image Library

## Drawing a Line:

```
from PIL import Image, ImageDraw
im = Image.new('RGBA', (400, 400), (0, 255, 0, 255))
draw = ImageDraw.Draw(im)
draw.line((100,200, 150,300), fill=128)
im.show()
```

## Converting into a grey scale image:

```
from PIL import Image, ImageEnhance

img = Image.open("C:/Users/LENOVO/Desktop/pic.jpg")
img.show()

img_data = img.getdata()

lst=[]
for i in img_data:
    lst.append(i[0]*0.2125+i[1]*0.7174+i[2]*0.0721) ### Rec. 709-6 weights

new_img = Image.new("L", img.size)
new_img.putdata(lst)

new_img.show()
```

## Water marking an image:

```
from PIL import Image, ImageDraw, ImageFont

img = Image.open("C:/Users/LENOVO/Desktop/pic.jpg")
#Creating draw object
draw = ImageDraw.Draw(img)

#Creating text and font object
text = "SJCEET CSE"
font = ImageFont.truetype('arial.ttf', 82)

#Positioning Text
textwidth, textheight = draw.textsize(text, font)
width, height = img.size
x=width/2-textwidth/2
y=height-textheight-300

#Applying text on image via draw object
draw.text((x, y), text, font=font)

#Saving the new image
img.save("C:/Users/LENOVO/Desktop/pic-water.jpg")
```