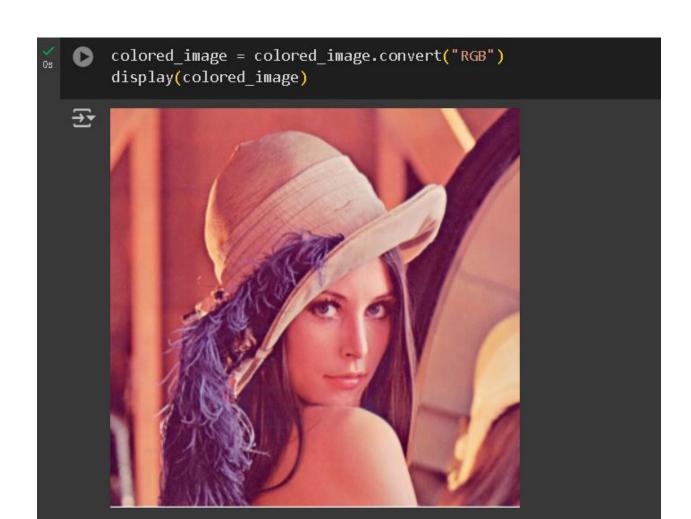
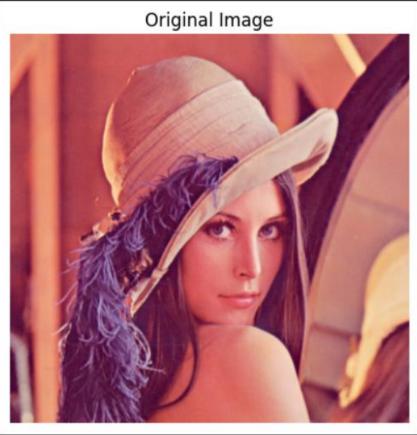
Worksheet 1

```
print("Format: ", colored_image.format)
print("Mode: ", colored_image.mode)
print("Size: ", colored_image.size)

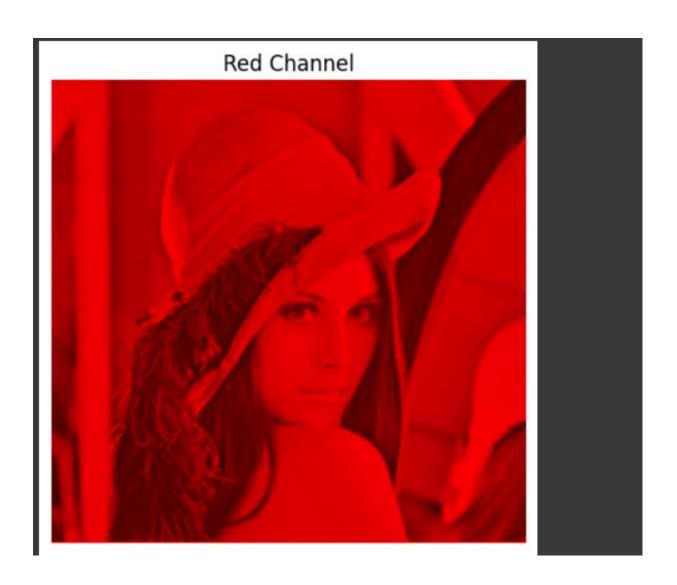
Format: PNG
Mode: RGBA
Size: (366, 357)
```







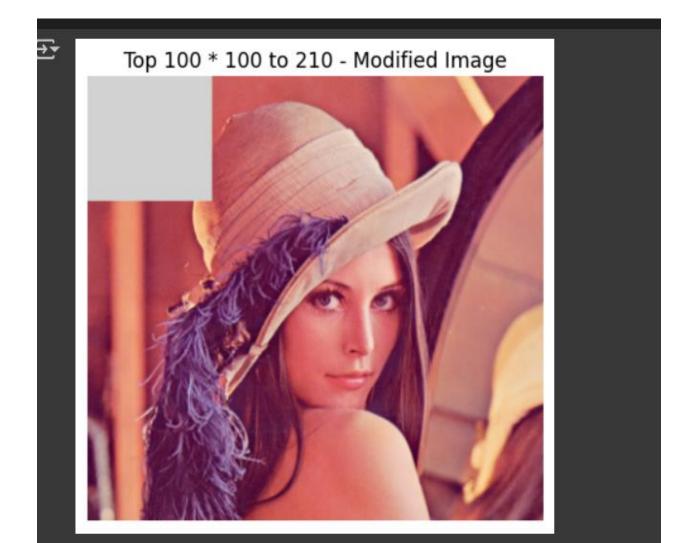
```
top_left = image_array[:100, :100]
    plt.axis("off")
    plt.title("Top Left Corner (100*100)")
    plt.imshow(top_left)
    plt.show()
<del>____</del>*
                Top Left Corner (100*100)
```



plt.imshow(green_channel)
plt.show()



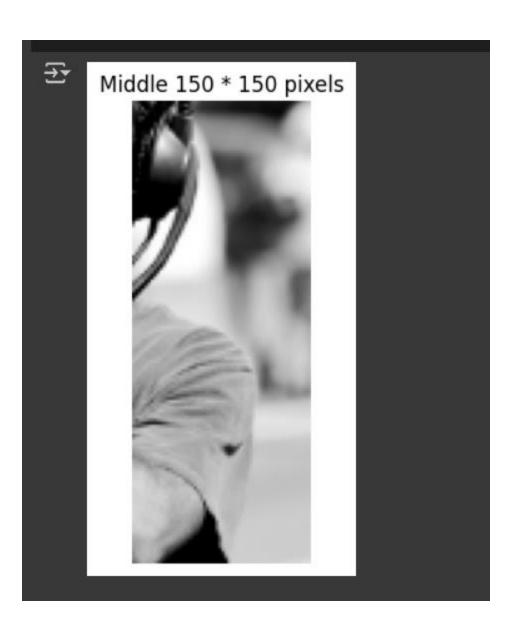






Original Grayscale Image







Thresholded Image





Grayscale to RGB



2 (357, 366)



```
array([[ 61.34173669, 62.17647059, 62.83473389, ..., -82.04761905, -83.96638655, -87.30252101],

[ 63.34173669, 61.17647059, 62.83473389, ..., -84.04761905, -83.96638655, -85.30252101],

[ 61.34173669, 65.17647059, 61.83473389, ..., -81.04761905, -82.96638655, -87.30252101],

...,

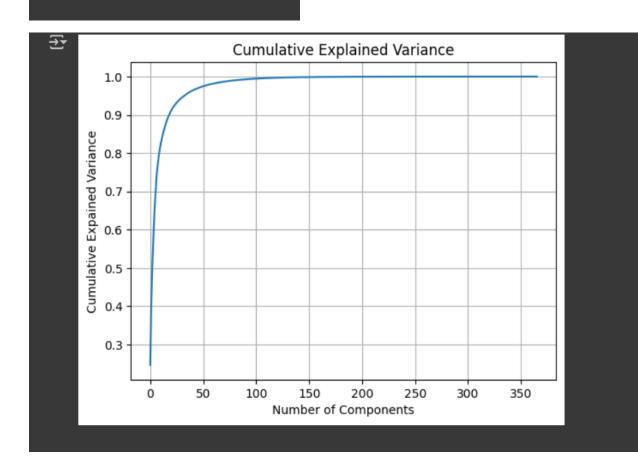
[ -46.65826331, -45.82352941, -42.16526611, ..., -44.04761905, -32.96638655, -31.30252101],

[ -44.65826331, -42.82352941, -42.16526611, ..., -39.04761905, -28.96638655, -31.30252101],

[ 161.34173669, 161.17647059, 160.83473389, ..., 123.95238095, 124.03361345, 123.69747899]])
```

```
array([[1482.61322507, 1444.75413087, 1404.48079344, ..., -477.00334403, -463.70533944, -416.64351808],
[1444.75413087, 1430.68506279, 1399.06857237, ..., -546.38764045, -531.51999339, -485.93803701],
[1404.48079344, 1399.06857237, 1391.50350927, ..., -581.36182451, -565.21914833, -521.85069871],
...,
[-477.00334403, -546.38764045, -581.36182451, ..., 3069.65783842, 3039.86677368, 3007.1540931],
[-463.70533944, -531.51999339, -565.21914833, ..., 3039.86677368, 3036.6898782, 3021.25177037],
[-416.64351808, -485.93803701, -521.85069871, ..., 3007.1540931, 3021.25177037, 3034.25092059]])
```

→ (366, 366)





50 Components Image



10 Components Image

100 Components Image



150 Components Image





