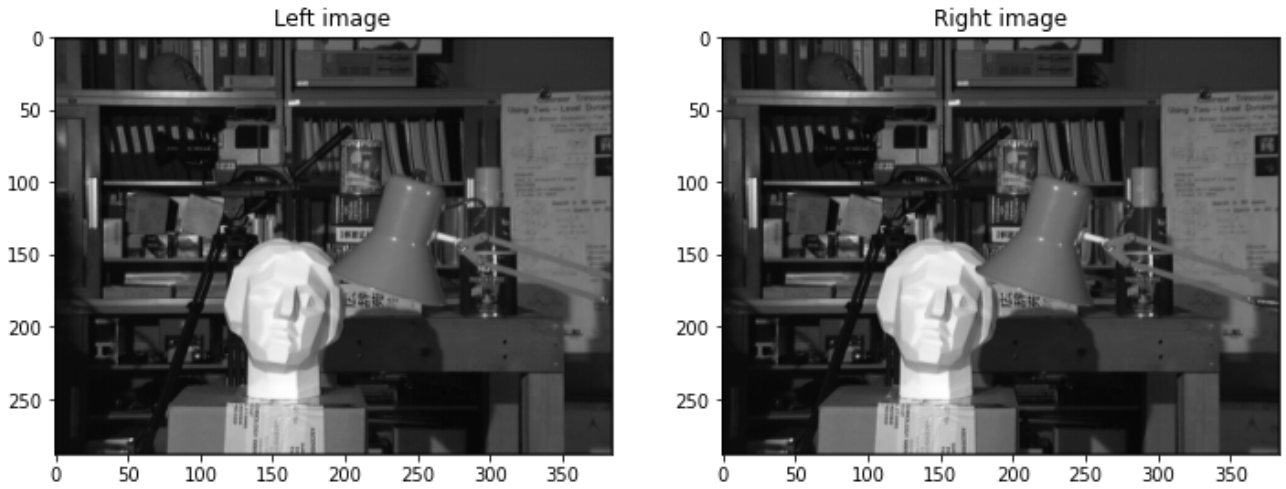
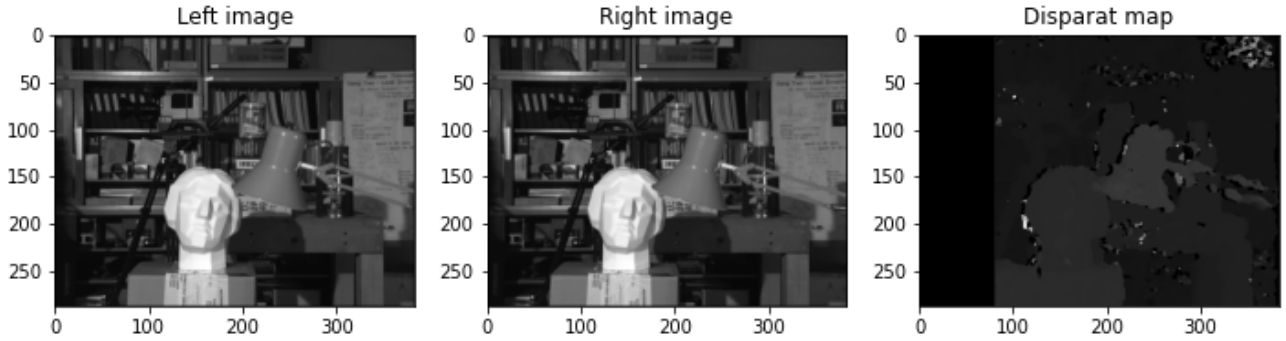
```
import numpy as np
import cv2
from matplotlib import pyplot as plt


imgL = cv2.imread('left.png',0)
imgR = cv2.imread('right.png',0)

fig, axes = plt.subplots(1, 2)

axes[0].imshow(imgL.real, cmap = 'gray')
axes[0].set_title('Left image')

axes[1].imshow(imgR.real, cmap = 'gray')
axes[1].set_title('Right image')

fig.set_figwidth(12)
fig.set_figheight(6)

plt.show()
```

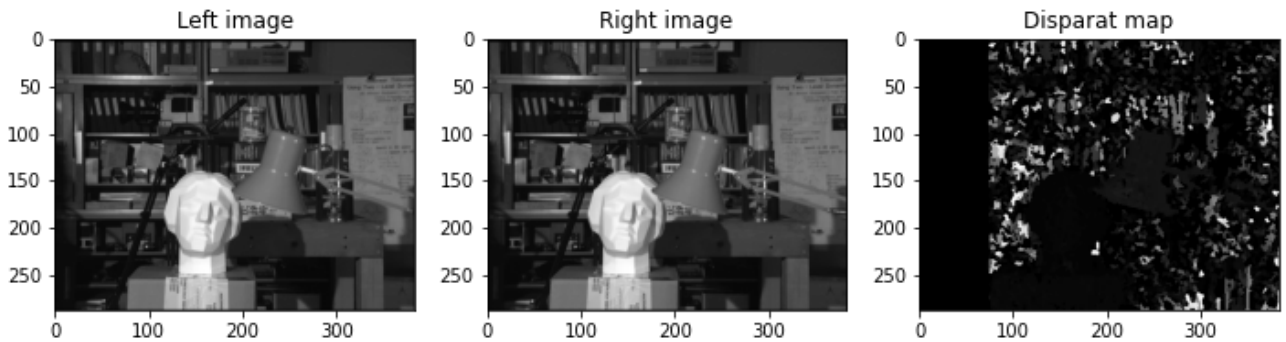



```
stereo = cv2.StereoSGBM_create(minDisparity=0, numDisparities=80, speckleRange=2, k
disparity = stereo.compute(imgL, imgR)

fig, axes = plt.subplots(1, 3)

axes[0].imshow(imgL, cmap = 'gray')
axes[0].set_title('Left image')

axes[1].imshow(imgR.real, cmap = 'gray')
axes[1].set_title('Right image')

axes[2].imshow(disparity.real, cmap = 'gray')
axes[2].set_title('Disparat map')

fig.set_figwidth(12)
fig.set_figheight(6)
```

```
plt.show()
```




```
stereo = cv2.StereoSGBM_create(minDisparity=10, numDisparities=64, speckleRange=2,
disparity = stereo.compute(imgL, imgR)

fig, axes = plt.subplots(1, 3)

axes[0].imshow(imgL, cmap = 'gray')
axes[0].set_title('Left image')

axes[1].imshow(imgR.real, cmap = 'gray')
axes[1].set_title('Right image')

axes[2].imshow(disparity.real, cmap = 'gray')
axes[2].set_title('Disparat map')

fig.set_figwidth(12)
fig.set_figheight(6)

plt.show()
```




```
stereo = cv2.StereoBM_create(numDisparities=16, blockSize=15)
disparity = stereo.compute(imgL,imgR)

fig, axes = plt.subplots(1, 3)

axes[0].imshow(imgL, cmap = 'gray')
axes[0].set_title('Left image')

axes[1].imshow(imgR.real, cmap = 'gray')
axes[1].set_title('Right image')
```

```
axes[2].imshow(disparity.real, cmap = 'gray')
axes[2].set_title('Disparat map')

fig.set_figwidth(12)
fig.set_figheight(6)

plt.show()
```