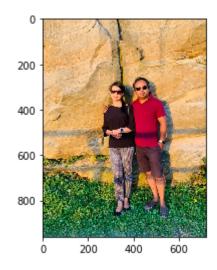
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```
In [62]: import cv2
import numpy as np
import matplotlib.pyplot as plt

In [63]: img = cv2.imread('C:/Users/Anm Faisal/Desktop/Sunlight.jpg')

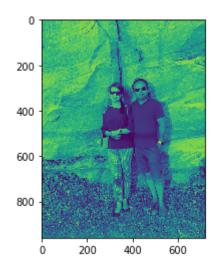
In [64]: image = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
    plt.imshow(image)
```

Out[64]: <matplotlib.image.AxesImage at 0xe6ecbf61d0>



```
In [66]: gray_image = cv2.cvtColor(img, cv2.COLOR_RGB2GRAY)
    plt.imshow(gray_image)
```

Out[66]: <matplotlib.image.AxesImage at 0xe6ecc56470>

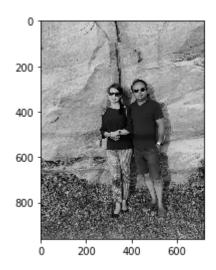


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```
In [78]: ret,thresh = cv2.threshold(grey_image,0,255, cv2.THRESH_BINARY)
height, width = gray_image.shape
print (height, width)
size = img.size
print (size)

# plot the binary image
imgplot = plt.imshow(gray_image, 'gray')
plt.show()
```

960 720 2073600



```
In [90]: print(gray_image.shape[0])
```

960

```
In [89]: | print(gray_image.shape[1])
```

720

```
In [82]: total = gray_image.shape[0] * gray_image.shape[1]
    print('Number of total pixels:',total)
```

Number of total pixels: 691200

```
In [83]: n_white_pix = np.sum(gray_image == 255)
    print('Number of white pixels:', n_white_pix)
```

Number of white pixels: 0

```
In [84]: n_black_pix= np.sum(gray_image == 0)
    print('Number of Black pixels:',n_black_pix)
```

Number of Black pixels: 111

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