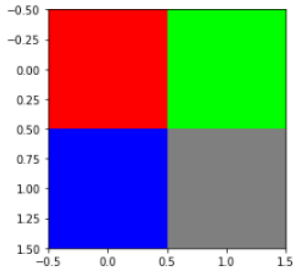
In [8]:
```
import matplotlib.pyplot as plt
import numpy as np
import cv2
```

In [16]:
```
color1=[255,0,0] #red
color2=[0,255,0] #green
color3=[0,0,255] #blue
color4=[127,127,127] #gray
plt.imshow(np.array([[color1,color2],[color3,color4]]))
```

Out[16]: <matplotlib.image.AxesImage at 0x267cc009898>



In [18]:
```
image=cv2.imread("C:/Users/kavindu/Pictures/test.jpg")
```

In [19]:
```
type(image)
```

Out[19]: numpy.ndarray

In [20]:
```
image.shape
```

Out[20]: (1066, 1599, 3)

In [21]:
```
plt.imshow(image)
```

Out[21]: <matplotlib.image.AxesImage at 0x267cc0584e0>

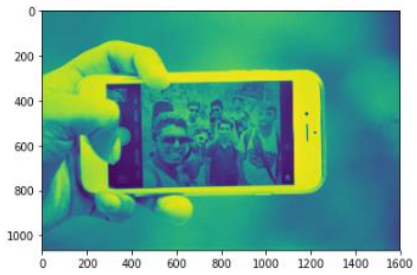
In [22]:
```
# By defaulr Opencv is not using the RGB color model. It uses BGR model instead.That is why the image above has changed

# Transform from BGR to RGB
image=cv2.cvtColor(image,cv2.COLOR_BGR2RGB)
plt.imshow(image)
```

Out[22]: <matplotlib.image.AxesImage at 0x267cc62c6a0>

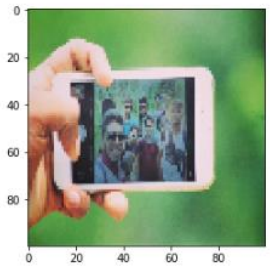
In [23]:
```
grayimage=cv2.cvtColor(image,cv2.COLOR_RGB2GRAY)
plt.imshow(grayimage)
```

Out[23]: <matplotlib.image.AxesImage at 0x267ccb9def0>



In [26]:
```
#resize a image
width=100
height=100
resize=cv2.resize(image,(width,height))
plt.imshow(resize)
```

Out[26]: <matplotlib.image.AxesImage at 0x267ccf3bd30>



In [28]:
```
# Drawing on a image
cv2.putText(image,"Bolakumari bordima",(70,270),cv2.FONT_HERSHEY_SIMPLEX ,0.8,(20,240,150),2)
plt.imshow(image)
```

Out[28]: <matplotlib.image.AxesImage at 0x267d5640eb8>