

In [50]:

```
from keras.models import load_model
from keras.preprocessing import image
import tensorflow as tf
```

In [51]:

```
model = load_model("Forest_fire.h5")
```

In [144]:

```
img= tf.keras.utils.load_img("withfire.jpg")
```

In [145]:

```
import numpy as np
```

In [146]:

```
from tensorflow.keras.utils import load_img, img_to_array
```

In [152]:

```
img = img.convert(mode='RGB')

x=tf.keras.utils.img_to_array(img)
x=np.expand_dims(x,axis=0)
```

In [153]:

```
x.shape
```

Out[153]:

```
(1, 64, 64, 3)
```

In [154]:

```
from array import array
```

In [156]:

```
pred = np.argmax(model.predict(x), axis=-1)
```

```
1/1 [=====] - 9s 9s/step
```

In [157]:

```
print (pred)
```

```
[0]
```

In [158]:

```
import cv2
import numpy as np
from keras.preprocessing import image
from keras.models import load_model
```

In [159]:

```
pip install twilio
```

Note: you may need to restart the kernel to use updated packages. Requirement already satisfied: twilio in c:\users\elankumaran r\anaconda3\lib\site-packages (7.15.2)
Requirement already satisfied: PyJWT<3.0.0,>=2.0.0 in c:\users\elankumaran r\anaconda3\lib\site-packages (from twilio) (2.4.0)

Requirement already satisfied: requests>=2.0.0 in c:\users\elankumaran r\anaconda3\lib\site-packages (from twilio) (2.28.1)
Requirement already satisfied: pytz in c:\users\elankumaran r\anaconda3\lib\site-packages (from twilio) (2022.1)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\elankumaran r\anaconda3\lib\site-packages (from requests>=2.0.0->twilio) (2022.9.14)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\elankumaran r\anaconda3\lib\site-packages (from requests>=2.0.0->twilio) (1.26.11)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\elankumaran r\anaconda3\lib\site-packages (from requests>=2.0.0->twilio) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\elankumaran r\anaconda3\lib\site-packages (from requests>=2.0.0->twilio) (3.3)

In [161]:

```
model = load_model(r'Forest_fire.h5')
```

In [162]:

```
video = cv2.VideoCapture(0)
```

In [163]:

```
name = ['forest', 'with fire']
```

In [165]:

```
from twilio.rest import Client
```

In [166]:

```
account_sid = 'ACe316932976f5aff487f6cdcab9a13579'  
auth_token= '589a07a92f512377d139c9d237f61bd4'  
client = Client (account_sid, auth_token)  
message = client.messages\  
.create(  
    body='Forest Fire is detected, stay alert',  
    from_ = '+12183043886',  
    to='+916374835017',)  
  
print(message.sid)
```

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In [167]:

```
account_sid = 'ACe316932976f5aff487f6cdcab9a13579'  
auth_token= '589a07a92f512377d139c9d237f61bd4'  
client = Client (account_sid, auth_token)  
message = client.messages\  
.create(  
    body='Forest Fire is detected, stay alert',  
    from_ = '+12183043886',  
    to='+91 94884 93819',)  
  
print(message.sid)
```

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In []: