In [1]:
```
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing  import image
import numpy as np
```

In [2]:
```
model = load_model (r"fishi.h5")
```

In [3]:
```
img = image.load_img("fish.jpg",target_size = (64,64))
```

In [4]:
```
type(img)
```

Out[4]:
```
PIL.Image.Image
```

In [5]:
```
x = image.img_to_array(img)
```

In [6]:
```
x.shape
```

Out[6]:
```
(64, 64, 3)
```

In [7]:
```
type(x)
```

Out[7]:
```
numpy.ndarray
```

In [8]:
```
x = np.expand_dims(x,axis = 0)
```

In [9]:
```
x.shape
```

Out[9]:
```
(1, 64, 64, 3)
```

In [10]:
```
pred = np.argmax(model.predict(x))
```

In [11]:
```
pred
```

Out[11]:
```
2
```

In [12]:
```
index = ['Black Sea Sprat',
 'Gilt Head Bream',
 'Horse Mackerel',
 'Red Mullet',
 'Red Sea Bream',
 'Sea Bass',
 'Shrimp',
 'Striped Red Mullet',
 'Trout']
```

In [13]:
```
prediction = index[pred]
```

In [14]:
```
prediction
```

Out[14]:
```
'Horse Mackerel'
```

In [ ]:

In [ ]: