Test The Model

In [22]:
```
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
import numpy as np
```

In [23]:
```
img = image.load_img("C:/Malan/IBM Stuff/Project and Design Phase/Data Set/Data Set/train/ORANGE/0_100.jpg",target_size= (64,64))
img
```

Out[23]:

In [24]:
```
x=image.img_to_array(img)
```

In [25]:
```
x
```

Out[25]:
```
array([[[241., 255., 254.],
        [250., 255., 255.],
        [255., 253., 255.],
        ...,
        [255., 255., 255.],
        [255., 255., 255.],
        [255., 255., 255.]],

       [[250., 255., 255.],
        [255., 254., 255.],
        [255., 252., 252.],
        ...,
        [255., 255., 255.],
        [255., 255., 255.],
        [255., 255., 255.]],

       [[255., 253., 255.],
        [255., 253., 250.],
        [255., 253., 249.],
        ...,
        [255., 255., 255.],
        [255., 255., 255.],
        [255., 255., 255.]],
```

```
[[255., 253., 255.],
 [255., 253., 250.],
 [255., 253., 249.],
 ...,
 [255., 255., 255.],
 [255., 255., 255.],
 [255., 255., 255.]],

...,

[[255., 255., 255.],
 [255., 255., 255.],
 [255., 255., 255.],
 ...,
 [255., 255., 255.],
 [255., 255., 255.],
 [255., 255., 255.]],

[[255., 255., 255.],
 [255., 255., 255.],
 [255., 255., 255.],
 ...,
 [255., 255., 255.],
 [255., 255., 255.],
 [255., 255., 255.]],

[[255., 255., 255.],
 [255., 255., 255.],
 [255., 255., 255.],

  ...,
  [255., 255., 255.],
  [255., 255., 255.],
  [255., 255., 255.]]], dtype=float32)
```

In [26]:
```
x.ndim
```

Out[26]: 3

In [27]:
```
x=np.expand_dims(x,axis=0)
```

In [28]:
```
x.ndim
```

Out[28]: 4

In [29]:
```
pred = classifier.predict(x)
```

```
1/1 [==============================] - 0s 213ms/step
```

In [30]:
```
pred
```

Out[30]: array([[0., 0., 1., 0., 0.]], dtype=float32)

In [31]:
```
labels=['APPLES', 'BANANA', 'ORANGE','PINEAPPLE','WATERMELON']
labels[np.argmax(pred)]
```

Out[31]: 'ORANGE'

In [ ]: