

## Test The Model

Evaluation is a process during the development of the model to check whether the model is the best fit for the given problem and corresponding data.

Load the saved model using load\_model



```
[ ] import numpy as np
    from tensorflow.keras.models import load_model

[ ] from tensorflow.keras.preprocessing import image

[ ] model=load_model('fruits.h5')
```

Taking an image as input and checking the results

```
img = image.load_img(r"C:\Users\DELL\Desktop\Desk Files\Nutrition Analysis Using Image Classification\
                    Sample_Images\Test_Image5.jpg",
                    grayscale=False,target_size= (64,64))#loading of the image
x = image.img_to_array(img)#image to array
x = np.expand_dims(x,axis = 0)#changing the shape
pred = model.predict_classes(x)#predicting the classes
pred
```

By using the model we are predicting the output for the given input image

```
y
[ ]
1/1 [=====] - 0s 31ms/step
array([3])

[ ] index=['APPLES', 'BANANA', 'ORANGE', 'PINEAPPLE', 'WATERMELON']
index[y[0]]

'PINEAPPLE'
```

The predicted class index name will be printed here.