Sprint 3:

Test The Model

Team ID	PNT2022TMID51161
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts

```python
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
import numpy as np
model = load_model("Nutrition Analyzer.h5")
```

```python
from tensorflow.keras.utils import img_to_array
img = image.load_img(r'/content/drive/MyDrive/data/TEST_SET/BANANA/101_100.jpg', grayscale = False, target_size =(64,64)) #loading the image
x = img_to_array(img) #image to array
x = np.expand_dims(x,axis = 0)
predict_x=model.predict(x)
classes_x=np.argmax(predict_x,axis=-1)
classes_x
```

```
1/1 [==============================] - 0s 153ms/step
array([1])
```

```python
img
```



```python
index=['APPLES', 'BANANA', 'ORANGE','PINEAPPLE','WATERMELON']
result=str(index[classes_x[0]])
result
```

```
'BANANA'
```