```
import seaborn as sns
import keras
import cv2
import os
import numpy as np
```

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
```

```
almondTest = '/content/drive/MyDrive/Peanuts/Almond test'
almondTrain = '/content/drive/MyDrive/Peanuts/Almond train'
almondVal = '/content/drive/MyDrive/Peanuts/Almond val'
cashewTest = '/content/drive/MyDrive/Peanuts/Cashew test'
cashewTrain = '/content/drive/MyDrive/Peanuts/Cashew train'
cashewVal = '/content/drive/MyDrive/Peanuts/Cashew val'
```

This is a dataset from kaggle (https://www.kaggle.com/datasets/ruopengan/11-common-nut-types-for-image-classification) about different kinds of nuts. From this I am using the almond and cashew data. The goal is to distinguish between almonds and cashews, and eventutally to distinguish all nuts.

```
labels = ['almond', 'cashew']
size = 225
def get_data(data_dir):
    data = []
    for x in labels:
        path = os.path.join(data_dir, x)
        n = labels.index(x)
        for img in os.listdir(path):
              og_arr = cv2.imread(os.path.join(path, img))[...,::-1]
              new_arr = cv2.resize(og_arr, (size, size))
              data.append([new_arr, n])
    return np.array(data)
```

Saved successfully!

```
l = []
for i in almondTrain:
        l.append("almond")

plt.figure(figsize = (5,5))
```

```
<Figure size 500x500 with 0 Axes>
<Figure size 500x500 with 0 Axes>
```