

## Importing libraries

In [1]: *# This library helps add support for large, multi-dimensional arrays and matrices*

```
import numpy as np
```

```
#open source used for both ML and DL for computation
```

```
import tensorflow as tf
```

```
#it is a plain stack of layers
```

```
from tensorflow.keras.models import Sequential
```

```
#Dense layer is the regular deeply connected neural network layer
```

```
from tensorflow.keras.layers import Dense, Flatten, Dropout
```

```
#Flatten-used for flattening the input or change the dimension, MaxPooling2D-for downsampling the image for Convolutional Layer
```

```
from tensorflow.keras.layers import Convolution2D, MaxPooling2D
```

```
#Its used for different augmentation of the image
```

```
from tensorflow.keras.preprocessing.image import ImageDataGenerator
```