

IMPORTING THE MODEL BUILDING LIBRARIES

Importing the necessary libraries

```
import tensorflow as tf
```

```
model = tf.keras.models.Sequential([  
    # Note the input shape is the desired size of the image 200x 200 with 3 bytes color  
    # The first convolution  
    tf.keras.layers.Conv2D(16, (3,3), activation='relu', input_shape=(200, 200, 3)),  
    tf.keras.layers.MaxPooling2D(2, 2),  
    # The second convolution  
    tf.keras.layers.Conv2D(32, (3,3), activation='relu'),  
    tf.keras.layers.MaxPooling2D(2,2),  
    # The third convolution  
    tf.keras.layers.Conv2D(64, (3,3), activation='relu'),  
    tf.keras.layers.MaxPooling2D(2,2),  
    # The fourth convolution  
    tf.keras.layers.Conv2D(64, (3,3), activation='relu'),  
    tf.keras.layers.MaxPooling2D(2,2),  
    # The fifth convolution  
    tf.keras.layers.Conv2D(64, (3,3), activation='relu'),  
    tf.keras.layers.MaxPooling2D(2,2),  
    # Flatten the results to feed into a dense layer  
    tf.keras.layers.Flatten(),  
    # 128 neuron in the fully-connected layer  
    tf.keras.layers.Dense(128, activation='relu'),  
    # 5 output neurons for 5 classes with the softmax activation  
    tf.keras.layers.Dense(27, activation='softmax')  
])
```