```python
In [1]: from keras.layers import Dense,Flatten,MaxPooling2D,Conv2D
        from keras.models import Sequential
```

```python
In [2]: model=Sequential()
        model.add(Conv2D(filters=6,kernel_size=(5,5),input_shape=(32,32,1)))
        model.add(MaxPooling2D(pool_size=(2, 2), strides=2))
        model.add(Conv2D(filters=16,kernel_size=(5,5)))
        model.add(MaxPooling2D(pool_size=(2, 2), strides=2))
        model.add(Flatten())
        model.add(Dense(120,activation='relu'))
        model.add(Dense(84,activation='relu'))
        model.add(Dense(10,activation='relu'))

        model.summary()
```

```
Model: "sequential"

_____
 Layer (type)                Output Shape              Param #
=================================================================
 conv2d (Conv2D)             (None, 55, 55, 96)        34944

 max_pooling2d (MaxPooling2D  (None, 27, 27, 96)       0
 )

 conv2d_1 (Conv2D)           (None, 27, 27, 256)       614656

 max_pooling2d_1 (MaxPooling  (None, 13, 13, 256)      0
 2D)

 conv2d_2 (Conv2D)           (None, 13, 13, 384)       885120

 conv2d_3 (Conv2D)           (None, 13, 13, 384)       1327488

 conv2d_4 (Conv2D)           (None, 13, 13, 256)       884992

 max_pooling2d_2 (MaxPooling  (None, 6, 6, 256)        0
 2D)

 flatten (Flatten)           (None, 9216)              0

 dense (Dense)               (None, 4096)              37752832

 dense_1 (Dense)             (None, 4096)              16781312

 dense_2 (Dense)             (None, 1000)              4097000

=================================================================
Total params: 62,378,344
Trainable params: 62,378,344
Non-trainable params: 0
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```

```python
In [ ]:
```