# Assignment -3

**Build CNN Model for Classification Of Flowers**

|  |  |
| --- | --- |
| Assignment Date | 06 October 2022 |
| Student Name | Pravin R |
| Student Roll Number | 113219041088 |
| Maximum Marks | 2 Marks |

## Download the Dataset : Dataset

Dataset downloaded and uploaded

## Image Augmentation

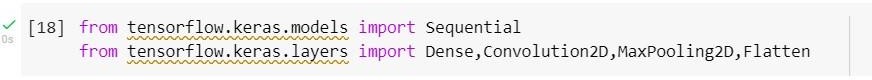
from tensorflow.keras.preprocessing.image import ImageDataGenerator daisy\_datagen=ImageDataGenerator(rescale=1./255,zoom\_range=0.5,horizont al\_flip=True,vertical\_flip=True)

x\_data= daisy\_datagen.flow\_from\_directory(r"/content/drive/MyDrive/flow ers/daisy",target\_size=(64,64),class\_mode="categorical",batch\_size=24)

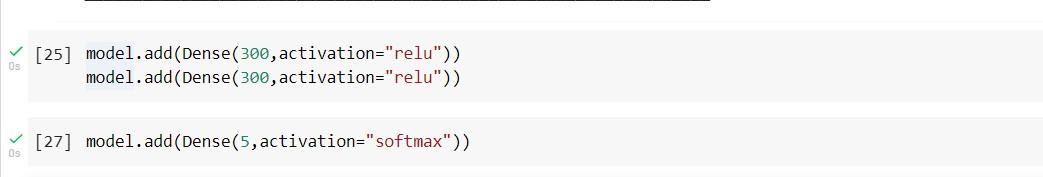
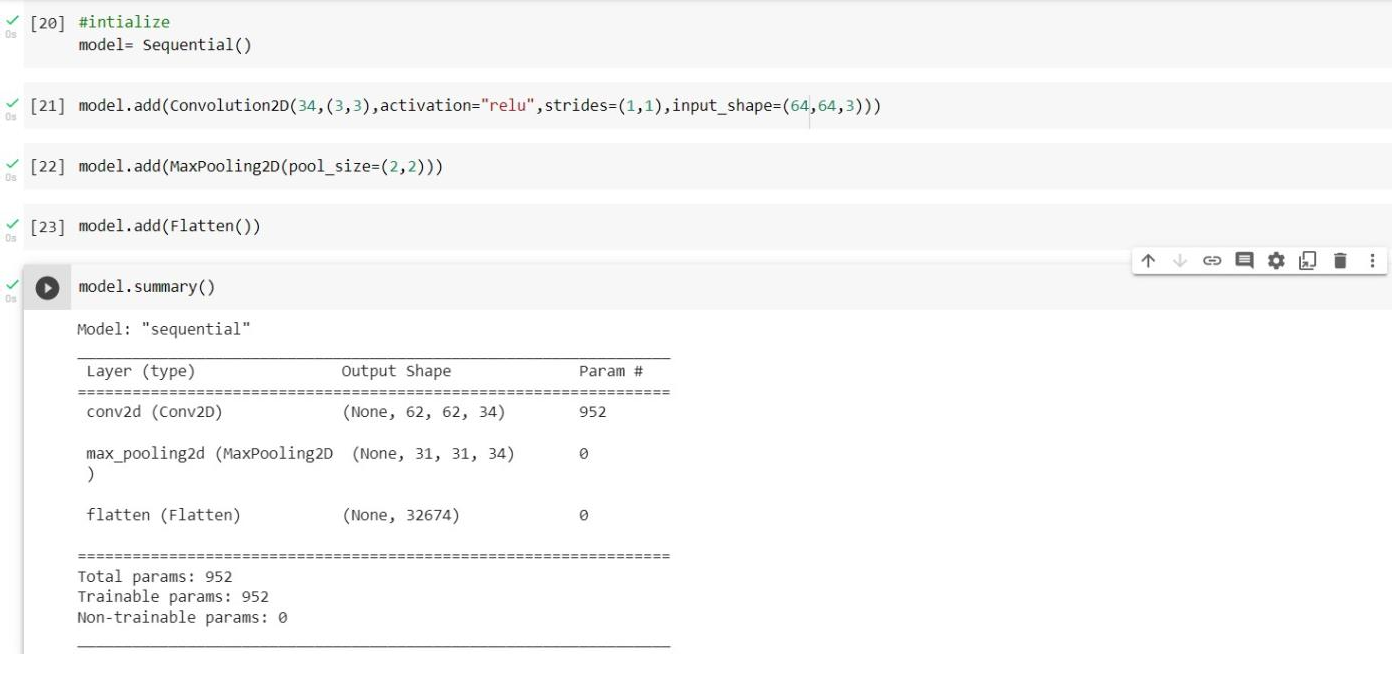
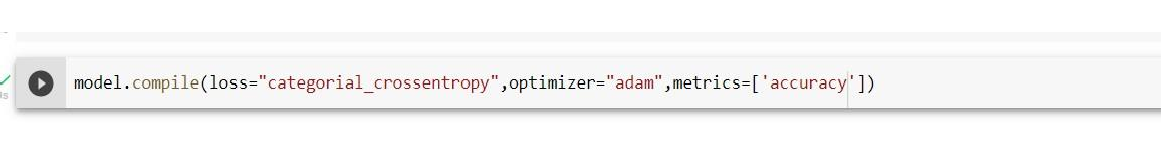
x\_data.class\_indices



## Create Model



1. **Add Layers (Convolution,MaxPooling,Flatten,Dense-(Hidden Layers),Output)**

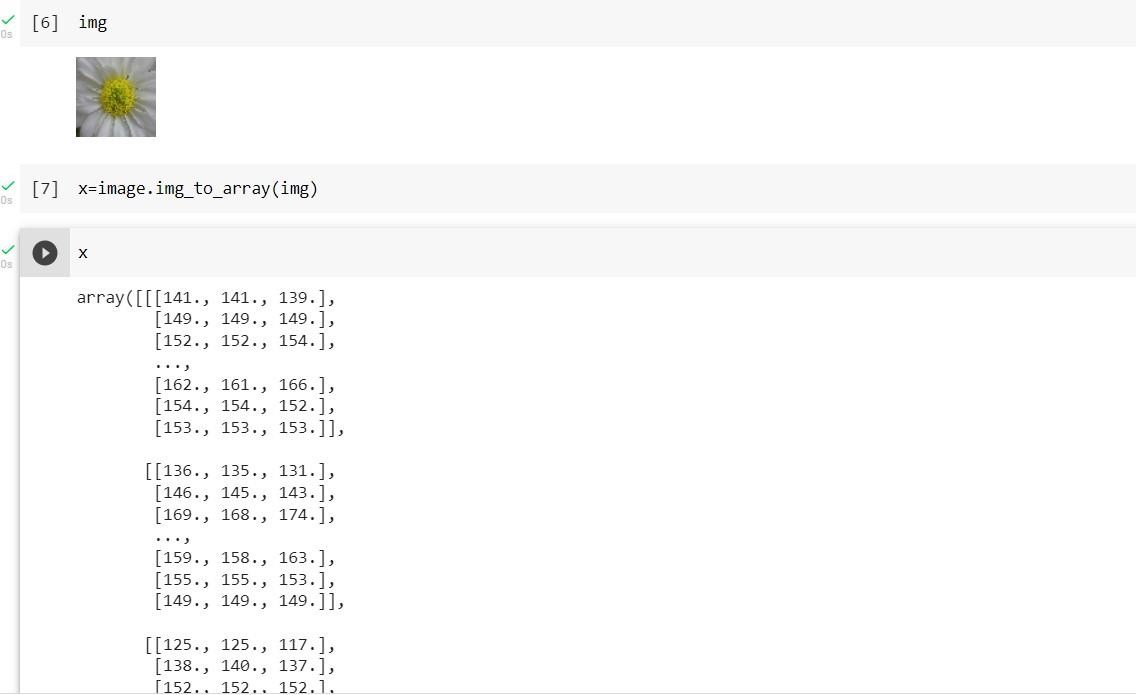


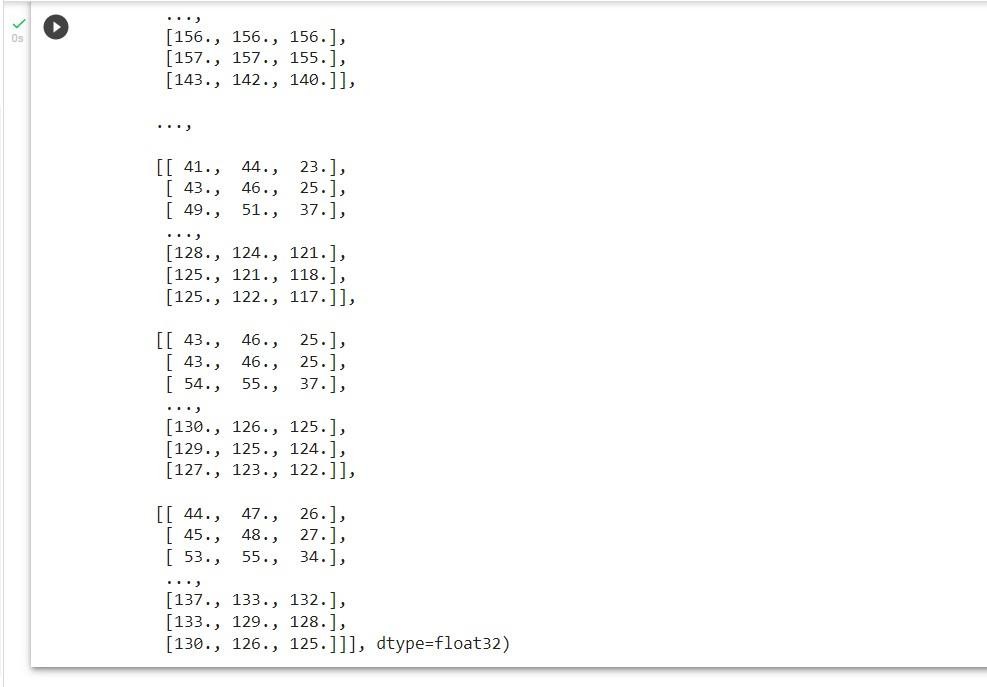
1. **Compile The Model**
2. **Fit The Model**

model.fit(x\_data, epochs= 10, steps\_per\_epoch= len(x\_data) ,validation\_ data=0.0,validation\_steps=0.0)

## Save The Model

1. **Test The Model**





x=np.expand\_dims(x,axis=0) pred= model.predict(x)



x\_data.class\_indices

‘daisy’