```
!unzip Flowers-Dataset.zip

from tensorflow.keras.preprocessing.image import ImageDataGenerator

train_datagen=ImageDataGenerator(rescale=1./255,
                                 zoom_range=0.2,
                                 horizontal_flip=True)

test_datagen=ImageDataGenerator(rescale=1./255)

xtrain=train_datagen.flow_from_directory('/flowers',
                                         target_size=(76,76),
                                         class_mode='categorical',
                                         batch_size=100)

---------------------------------------------------------------------
-----
FileNotFoundError                         Traceback (most recent call
last)
<ipython-input-13-35006da4c103> in <module>
      2                                           target_size=(76,76),
      3
class_mode='categorical',
----> 4                                           batch_size=100)

/usr/local/lib/python3.7/dist-packages/keras/preprocessing/image.py in
flow_from_directory(self, directory, target_size, color_mode, classes,
class_mode, batch_size, shuffle, seed, save_to_dir, save_prefix,
save_format, follow_links, subset, interpolation, keep_aspect_ratio)
   1485         subset=subset,
   1486         interpolation=interpolation,
-> 1487         dtype=self.dtype)
   1488
   1489   def flow_from_dataframe(self,

/usr/local/lib/python3.7/dist-packages/keras/preprocessing/image.py in
__init__(self, directory, image_data_generator, target_size,
color_mode, classes, class_mode, batch_size, shuffle, seed,
data_format, save_to_dir, save_prefix, save_format, follow_links,
subset, interpolation, keep_aspect_ratio, dtype)
    505     if not classes:
    506       classes = []
```

```
--> 507       for subdir in sorted(os.listdir(directory)):
    508         if os.path.isdir(os.path.join(directory, subdir)):
    509           classes.append(subdir)


FileNotFoundError: [Errno 2] No such file or directory: '/flowers'
```

```
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import
        Convolution2D,MaxPool2D,Flatten,Dense

model=Sequential()
model.add(Convolution2D(32,(3,3),activation='relu',input_shape=
        (76,76,3)))
model.add(MaxPool2D(pool_size=(2,2)))
model.add(Flatten())
model.add(Dense(300,activation='relu'))
model.add(Dense(150,activation='relu'))
model.add(Dense(4,activation='softmax'))

model.compile(optimizer='adam',loss='categorical_crossentropy',metrics=
        ['accuracy'])

model.fit_generator(xtrain,
                    steps_per_epoch = len(xtrain),
                    epochs = 10,
                    validation_data = xtest,
                    validation_steps = len(xtest))
```

```
---------------------------------------------------------------------
-----
NameError                                 Traceback (most recent call
last)
<ipython-input-12-8863c00c0cdd> in <module>
----> 1 model.fit_generator(xtrain,
      2                     steps_per_epoch = len(xtrain),
      3                     epochs = 10,
      4                     validation_data = xtest,
      5                     validation_steps = len(xtest))


NameError: name 'xtrain' is not defined
```

```
model.save('flowers.h5')

from tensorflow.keras.preprocessing import image
import numpy as np
```

```
img=image.load_img('/content/flowers/daisy/10140303196_b88d3d6cec.jpg'
        ,target_size=(76,76))
img

---------------------------------------------------------------------
-----
FileNotFoundError                         Traceback (most recent call
last)
<ipython-input-16-1c39ab27e07a> in <module>
----> 1
img=image.load_img('/content/flowers/daisy/10140303196_b88d3d6cec.jpg'
,target_size=(76,76))
      2 img

/usr/local/lib/python3.7/dist-packages/keras/utils/image_utils.py in
load_img(path, grayscale, color_mode, target_size, interpolation,
keep_aspect_ratio)
    391     if isinstance(path, pathlib.Path):
    392       path = str(path.resolve())
--> 393     with open(path, 'rb') as f:
    394       img = pil_image.open(io.BytesIO(f.read()))
    395   else:

FileNotFoundError: [Errno 2] No such file or directory:
'/content/flowers/daisy/10140303196_b88d3d6cec.jpg'

x=image.img_to_array(img)
x
x=np.expand_dims(x,axis=0)
pred=np.argmax(model.predict(x))
pred
op=['daisy','dandelion','rose','sunflower','tulip']
op[pred]

---------------------------------------------------------------------
-----
NameError                                 Traceback (most recent call
last)
<ipython-input-17-2d40468d8112> in <module>
----> 1 x=image.img_to_array(img)
      2 x
      3 x=np.expand_dims(x,axis=0)
      4 pred=np.argmax(model.predict(x))
      5 pred
```

```
NameError: name 'img' is not defined
```