```
In ! !! .
       from keras.preprocessing.image import ImageDataGenerator
       train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)
       test_datagen=ImageDataGenerator(rescale=1./255)
       x_train = train_datagen.flow_from_directory('/content/Dataset/training_set',target_size=(64,64),batch
      Found 15750 images belonging to 9 classes.
      x test = test datagen.flow from directory('/content/Dataset/test_set',target_size=(64,64),batch_size=
      Found 2250 images belonging to 9 classes.
In I I
       from keras, models import Sequential
       from keras.layers import Dense
       from keras.layers import Convolution2D
       from keras.layers import MaxPooling2D
       from keras.layers import Dropout
       from keras.layers import Flatten
In [ ] model = Sequential()
In [ ]:
       model.add(Convolution2D(32.(3,3),input_shape=(64,64,1), activation='relu'))
       eno. of feature detectors, size of feature detector, image size, activation function
In [ ] model.add(WaxPooling2D(pool_size=(2.2)))
In [ ] model.add(Flatten())
In [ ]: model.add(Dense(units=512, activation = 'relu'))
In [ ] model.add(Dense(units=9, activation = 'softmax'))
In [ ]: model.compile(loss='categorical_crossentropy', optimizer = 'adam', metrics = ['accuracy'])
In [ ]: model.fit_generator(x_train,steps_per_epoch=24.epochs=10,validation_data = x_test, validation_steps=
       #steps_per_epoch = no. of train images//batch size
      /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: UserWarning: 'Model.fit_generator' is
      deprecated and will be removed in a future version. Please use 'Model.fit', which supports generator
      s.
"""Entry point for launching an IPython kernel,
      24/24 [------] - ETA: 0s - loss: 1.2714 - accuracy: 0.6219
      WARNING:tensorflow:Your input ran out of data; interrupting training. Make sure that your dataset or generator can generate at least "steps_per_epoch " epochs" batches (in this case, 40 batches). You ma
      4031 - val_accuracy: 0.8982
      Epoch 2/10
      Epoch 3/10
      24/24 [========================= ] - 34s 1s/step - loss: 0.1448 - accuracy: 0.9615
      Epoch 4/10
      24/24 [====
               Epoch 5/10
      Epoch 6/10
      24/24 [=====
               Epoch 7/10
      24/24 [====
                   Epoch 8/10
      Epoch 9/10
      Epoch 10/10
      Dut[ ]
In [ ] model.save('asipng1.h5')
In [ ] from keras.models import load_model
       import numpy as np
       import cv2
In [ ] | model=load_model('aslpngt.h5')
In [ ]:
```