DATE	12TH NOVEMBER 2022
TEAM ID	PNT2022TMID32512
PROJECT NAME	PROJECT - DIGITAL NATURALIST - AI ENABLED TOOL FOR BIODIVERSITY RESEARCHERS
MAXIMUM MARKS	8 MARKS

Loading Images Into Machine Understandable Data :

Animal Dataset :

Passing training data to train variable for animals

xtrain =

train_datagen.flow_from_directory('/content/datasetbd/train/animals' , target_size=(64,64), class_mode='categorical',

batch_size=100)

Passing testing data to test variable for animals xtest

=

test_datagen.flow_from_directory('/content/datasetbd/test/animals',

target_size=(64,64), class_mode='categorical', batch_size=100)

Birds Dataset:

Passing training data to train variable for birds

xtrain1 =

train_datagen.flow_from_directory('/content/datasetbd/train/birds',

target_size=(64,64), class_mode='categorical', batch_size=100) xtest1 =

test_datagen.flow_from_directory('/content/datasetbd/test/birds', class_mode='categorical', batch_size=100)

Flowers Dataset:

```
# Passing training data to train variable for flowers
xtrain2 = train_datagen.flow_from_directory('/content/datasetbd/train/flowers', target_size=(64,64), class_mode='categorical', batch_size=100)
# Passing testing data to test variable for flowers
xtest 2= test_datagen.flow_from_directory('/content/datasetbd/test/flowers', target_size=(64,64), class_mode='categorical', batch_size=100) Marine Animal
```

Dataset:

```
# Passing training data to train variable for marine animals
xtrain3 = train_datagen.flow_from_directory('/content/datasetbd/train/marine animals', target_size=(64,64), class_mode='categorical', batch_size=100)
# Passing testing data to test variable for marine animals
xtest3=      test_datagen.flow_from_directory('/content/datasetbd/test/marine animals',   target_size=(64,64),   class_mode='categorical',   batch_size=100)
```

Plants Dataset:

```
# Passing training data to train variable for plants
xtrain4 = train_datagen.flow_from_directory('/content/datasetbd/train/plants', target_size=(64,64), class_mode='categorical', batch_size=100)
# Passing testing data to test variable for plants
xtest4 = test_datagen.flow_from_directory('/content/datasetbd/test/plants', target_size=(64,64), class_mode='categorical'
```