In [3]:
```
from tensorflow.keras.preprocessing.image import load_img
from tensorflow.keras.preprocessing.image import img_to_array
from keras.applications.vgg16 import preprocess_input
from keras.applications.vgg16 import decode_predictions
from keras.applications.vgg16 import VGG16
```

In [4]:
```
image = load_img('C:/Users/DELL/Downloads/download.jpg', target_size=(224,
image = img_to_array(image)
image = image.reshape((1, image.shape[0], image.shape[1], image.shape[2]))
image = preprocess_input(image)
model = VGG16()
yhat = model.predict(image)
label = decode_predictions(yhat)
label = label[0][0]
print('%s (%.2f%%)' % (label[1], label[2]*100))
```

```
Downloading data from https://storage.googleapis.com/tensorflow/keras-appl
ications/vgg16/vgg16_weights_tf_dim_ordering_tf_kernels.h5 (https://storag
e.googleapis.com/tensorflow/keras-applications/vgg16/vgg16_weights_tf_dim_
ordering_tf_kernels.h5)
553467096/553467096 [==============================] - 642s 1us/step
1/1 [==============================] - 2s 2s/step
Downloading data from https://storage.googleapis.com/download.tensorflow.o
rg/data/imagenet_class_index.json (https://storage.googleapis.com/downloa
d.tensorflow.org/data/imagenet_class_index.json)
35363/35363 [==============================] - 0s 9us/step
castle (34.03%)
```

In [5]:
```
image = load_img('C:/Users/DELL/Downloads/download2.png', target_size=(224,
image = img_to_array(image)
image = image.reshape((1, image.shape[0], image.shape[1], image.shape[2]))
image = preprocess_input(image)
model = VGG16()
yhat = model.predict(image)
label = decode_predictions(yhat)
label = label[0][0]
print('%s (%.2f%%)' % (label[1], label[2]*100))
```

```
1/1 [==============================] - 1s 992ms/step
valley (44.85%)
```

In [6]:
```
image = load_img('C:/Users/DELL/Downloads/download3.jpg', target_size=(224,
image = img_to_array(image)
image = image.reshape((1, image.shape[0], image.shape[1], image.shape[2]))
image = preprocess_input(image)
model = VGG16()
yhat = model.predict(image)
label = decode_predictions(yhat)
label = label[0][0]
print('%s (%.2f%%)' % (label[1], label[2]*100))
```

```
1/1 [==============================] - 1s 980ms/step
golden_retriever (84.78%)
```