```
import tensorflow as tf
from tensorflow import keras
from tensorflow.keras import layers
from tensorflow.keras.preprocessing.image import ImageDataGenerator
IMG SIZE = 244
BATCH SIZE = 32
train datagen =
ImageDataGenerator(rescale=1./255, validation split=0.2)
train generator = train datagen.flow from directory(
    '/content/drive/MyDrive/skin data/Skin Data',
   target size=(IMG SIZE,IMG SIZE),
   batch size=BATCH SIZE,
   class mode='categorical',
   subset='training'
)
val generator = train datagen.flow from directory(
    '/content/drive/MyDrive/skin data/Skin Data',
   target size=(IMG SIZE,IMG SIZE),
   batch size=BATCH SIZE,
   class mode='categorical',
   subset='validation'
)
Found 239 images belonging to 2 classes.
Found 58 images belonging to 2 classes.
# Define the model
model = keras.Sequential([
   layers.Conv2D(32,
(3,3),activation='relu',input shape=(IMG SIZE,IMG SIZE,3)),
   layers.MaxPooling2D(2,2),
   layers.Conv2D(64,(3,3),activation='relu'),
   layers.MaxPooling2D(2,2),
   layers.Conv2D(128,(3,3),activation='relu'),
   layers.MaxPooling2D(2,2),
   layers.Flatten(),
   layers.Dense(128,activation='relu'),
   layers.Dense(1,activation='sigmoid') #output layer
])
#compile the model
model.compile(optimizer='adam',loss='binary crossentropy',metrics=['ac
curacy'])
model.fit(train generator, epochs=5, validation data=val generator)
Epoch 1/5
```

```
accuracy: 0.5000 - val loss: 0.6939 - val accuracy: 0.5000
Epoch 2/5
8/8 [=========== ] - 39s 5s/step - loss: 0.6934 -
accuracy: 0.5000 - val loss: 0.6932 - val accuracy: 0.5000
Epoch 3/5
8/8 [============ ] - 37s 5s/step - loss: 0.6932 -
accuracy: 0.5000 - val loss: 0.6931 - val accuracy: 0.5000
Epoch 4/5
8/8 [============ ] - 40s 5s/step - loss: 0.6931 -
accuracy: 0.5000 - val loss: 0.6931 - val accuracy: 0.5000
Epoch 5/5
accuracy: 0.5000 - val loss: 0.6931 - val accuracy: 0.5000
<keras.src.callbacks.History at 0x7c5d70689030>
model.save("Model.h5","label.txt")
from tensorflow.keras.models import load model
from tensorflow.keras.preprocessing import image
import numpy as np
model = load model('/content/Model.h5')
test_image_path = '/content/drive/MyDrive/skin
data/Skin Data/Cancer/Testing/1714-02.jpg'
img = image.load img(test image path, target size=(244, 244))
img_array = image.img_to_array(img)
img array = np.expand dims(img array, axis=0)
img array = img array / 255.0
predictions = model.predict(img array)
print(predictions)
1/1 [======= ] - 0s 308ms/step
[[0.49992236]]
if predictions < 0.5:
   print('Non Cancer')
   print('Cancer')
Non Cancer
```