

Test the Model

Predicting the output

Input:

```
prediction=model.predict(X_test[:4])  
print(prediction)
```

Output:

```
1/1 [=====] - 0s 23ms/step  
[[9.6609507e-17 1.6706395e-30 1.1514326e-14 6.2211914e-14 2.1789413e-30  
 9.8262021e-24 4.1186576e-30 1.0000000e+00 9.9287471e-20 3.6865574e-19]  
 [2.6650833e-24 1.2571344e-25 1.0000000e+00 3.8322025e-25 6.0288331e-32  
 1.7170357e-31 2.1468791e-15 6.8599688e-34 6.6149775e-21 3.5742554e-32]  
 [6.0631769e-12 9.9999774e-01 2.6093470e-12 1.9750187e-15 1.9481078e-11  
 1.8802774e-12 1.2282828e-12 2.5202282e-13 2.2576423e-06 4.3454872e-13]  
 [1.0000000e+00 3.2207890e-26 9.8987043e-12 2.5465012e-20 1.3112296e-23  
 3.9773871e-18 1.9132972e-12 1.3219097e-19 3.5936968e-17 2.9064331e-12]]
```

Input:

```
print(np.argmax(prediction,axis=1))  
print(y_test[:4])
```

Output:

```
[7 2 1 0]  
[[0. 0. 0. 0. 0. 0. 0. 1. 0. 0.]  
 [0. 0. 1. 0. 0. 0. 0. 0. 0. 0.]  
 [0. 1. 0. 0. 0. 0. 0. 0. 0. 0.]  
 [1. 0. 0. 0. 0. 0. 0. 0. 0. 0.]]
```