

Team ID	PNT2022TMID41253
Project Name	A Novel Method For Handwritten Digit Recognition System

Test the model

```
prediction=model.predict(x_train[:4])
print(prediction)
for i in range(4):
    print(numpy.argmax(prediction[i]),max(prediction[i]))
```

```
[[[1.19853648e-05 5.34047842e-07 5.00225324e-05 5.55766463e-01
  3.18950188e-05 4.40877676e-01 1.67772028e-04 1.07444372e-04
  2.96354759e-03 2.26782086e-05]
 [9.99949098e-01 5.86495408e-10 2.30226360e-05 1.25716744e-08
  4.07761291e-09 4.85828267e-08 2.61525311e-05 1.28998607e-08
  8.49969865e-07 6.58035958e-07]
 [1.16010135e-08 5.73581360e-07 1.40676704e-07 9.37804828e-07
  9.99753535e-01 3.44685525e-08 4.01228029e-08 1.25107681e-05
  3.02790777e-05 2.01888921e-04]
 [5.91575144e-07 9.99561250e-01 1.10506517e-05 1.11685175e-07
  7.49433893e-05 2.87673129e-06 8.78896390e-06 3.77095712e-05
  2.84754438e-04 1.79731414e-05]]
3 0.55576646
0 0.9999491
4 0.99975353
```

```
prediction = model.predict(x_test[:4])
for i in range(4):
    print(numpy.argmax(prediction[i]),max(prediction[i]))
```

```
7 0.99993384
2 0.99972457
1 0.99990094
0 0.9999697
```

