Team ID	PNT2022TMID52603
Project Name	A Novel Method for Handwritten Digit Recognition System

Applying One Hot Encoding:

```python
number_of_classes= 10
y_train1 = np_utils.to_categorical(y_train,number_of_classes)
y_test1 = np_utils.to_categorical(y_test,number_of_classes)
```

```python
print("After encoding the value",y_test[10] ,"become", y_test1[10])
```

```
After encoding the value 0 become [1. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
```

```
X_train[0]
```

```
array([[  0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,          0,
          0],
       [  0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    3,
         18,   18,   18,  126,  136,  175,   26,  166,  255,  247,  127,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,    0,   30,   36,   94,  154,  170,
        253,  253,  253,  253,  253,  225,  172,  253,  242,  195,   64,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,   49,  238,  253,  253,  253,  253,
        253,  253,  253,  253,  251,   93,   82,   82,   56,   39,    0,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,   18,  219,  253,  253,  253,  253,
        253,  198,  182,  247,  241,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,    0,   80,  156,  107,  253,  253,
        205,   11,    0,   43,  154,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,    0,    0,   14,    1,  154,  253,
         90,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,  139,  253,
        190,    2,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0],
       [  0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,   11,  190,
```