Ex. No. 10   Implementing Artificial
Neural Networks for an application
using Python-classification

AIM:

To implement ANN for an
application in classification.

SOURCE CODE:

```
sklearn.model_selection import train_test_
                                    split
from sklearn.datasets import make_circles
import from sklearn.neural_network
                import MLP classifier

from numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
% matplotlib. Inline
X_train, y_train = make_circles(n_samples=
                100, noise=0.05)
X_test, y_test = make_circles(n_samples=
                300, noise=0.05)
sns.scatterplot(X_train[:,0], X_train[:,1],
        hue = y_train)
plt.title("Train Data")
plt.show()
```

plt. show()
sns. scatterplot (x_test [:,0],
    x_test[:,1], hue = y_pred, ax=ax[0])
plt. show()

Output :

Test Data

Predicted data
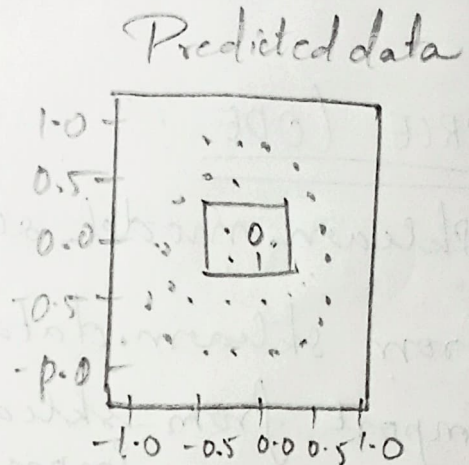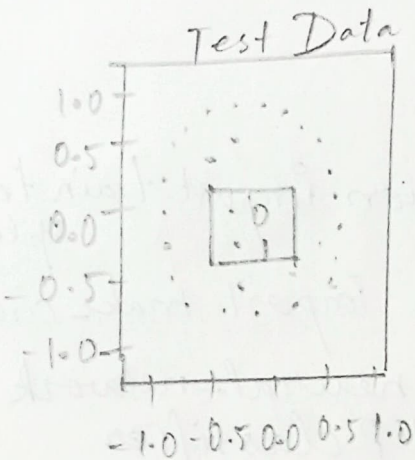
RESULT:
The program was successfully
executed !, the o/p is verified .