Exp:10 Implementing artifical neural networks for an application using Python - classification.

Code:

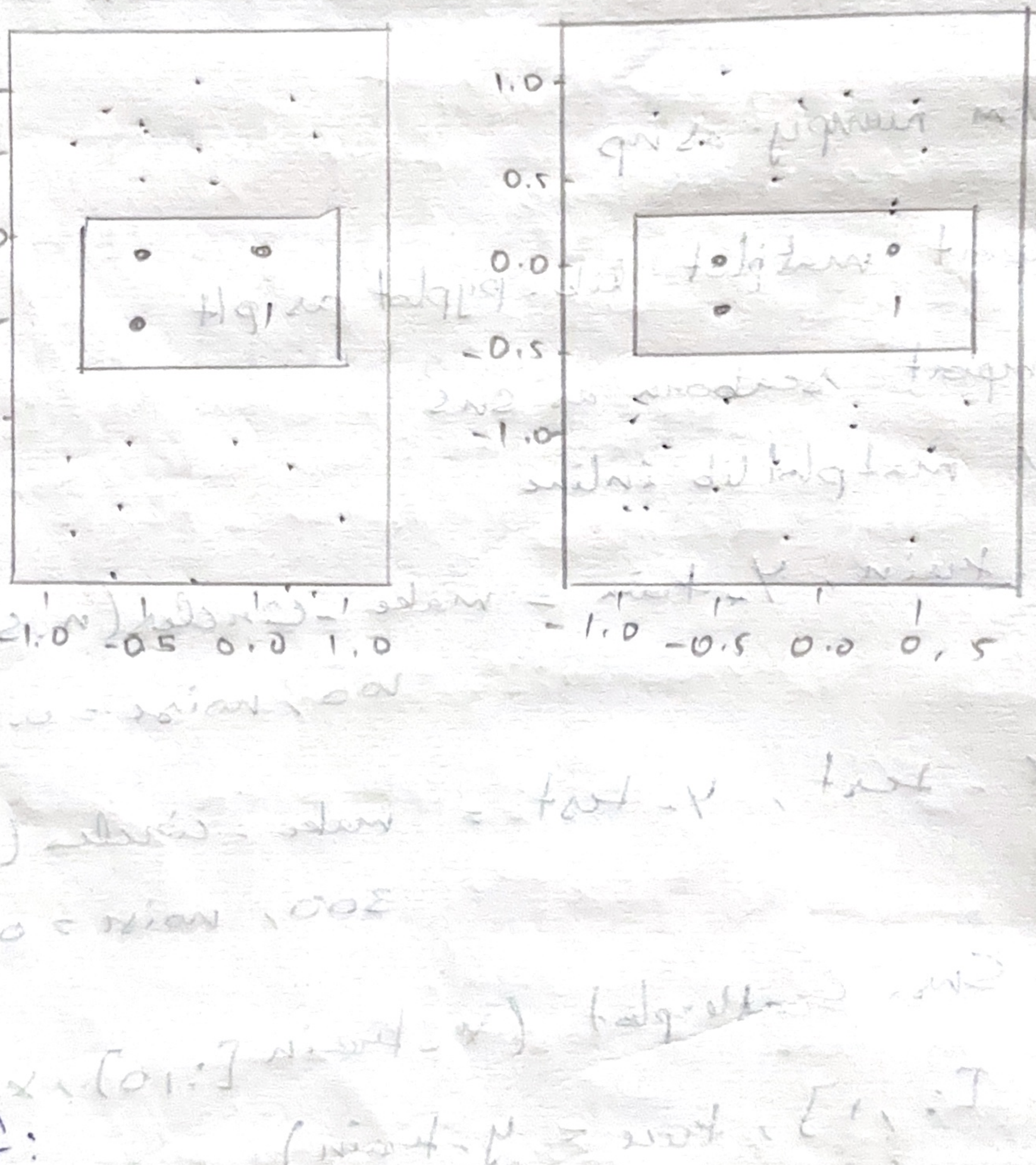
```
Sklearn.model_selection import train_test_split
from sklearn.dataset import make_circles
import from sklearn.neural_network import MLP classifier
from numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
% matplotlib inline
X_train, Y_train = make_circles(n_samples = 100, noise = 0.05)
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()
if1 = MLP Classifier(max_iter = 1000)
if.fit(x_train, y_train)
```

```
y_pred = ij.predict(x_test)

fig, ax = plt.subplots(1,2)

sns.scatterplot(x_test[:,0],
    x_test[:,1], true, y_pred, ax=ax[0])

plt.show()
```




Result:

The program was successfully executed and o/p is verified