

Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets

Code

```
from sklearn.neural_network import MLPClassifier  
from sklearn.datasets import load_iris  
  
X, y = load_iris(return_X_y=True)  
  
clf = MLPClassifier(max_iter=2000)  
  
clf.fit(X, y)  
  
print("Accuracy:", clf.score(X, y))
```

Output



The image shows a screenshot of a Python terminal window. The window has a menu bar with File, Edit, Shell, Debug, Options, Window, and Help. Below the menu is a status bar displaying "Python 3.14.2 (tags/v3.14.2:df79316, Dec 5 2025, 17:18:21) [MSC v.1944 64 bit (AMD64)] on win32". The main area of the terminal shows the following text:

```
File Edit Shell Debug Options Window Help  
Python 3.14.2 (tags/v3.14.2:df79316, Dec 5 2025, 17:18:21) [MSC v.1944 64 bit (AMD64)] on win32  
Enter "help" below or click "Help" above for more information.  
>>> ===== RESTART: C:\Users\dines\Downloads\ML_Lab\exp 01.py =====  
Accuracy: 0.98  
>>>
```