Ex.no:11 Implementing artificial neural networks for an application using python - regression.

AIM :-

To implementing artificial neural networks for an application in regression using python

Source code :

```
from sklearn.neural_network import MLP
                                    regressor.
from sklearn.model_selection import train_test_
                                    split.
from sklearn.datasets import make_regression
import numpy as np.
import matplotlib.pyplot as plt.
import seaborn as sns.
% matplotlib inline
x.y = make_regression(n_samples = 1000,
    noise = 0.05, n_features = 100)
x.shape, y.shape = ((1000, 100), (1000)).
x_train, x_test, y_train, y_test = train_
test_split(x, y, test_size = 0.2, shuffle = True,
        random_state = 42)
clf = MLP regression (max_iter = 1000)
if.fit (x_train, y_train).
```

O/P :-

R2 Score for test data = 0.9686558421529

result :-

the program was successfully executed & the op is verified.