Exp. No: 11
Date:

Implementing artificial Network for an Application using Python - Regressor.

Aim:

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

Program:

```
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_sample = 1000,
                        noise = 0.05, n_features = 100)

x.shape, y.shape = ((1000, 100), (1000, 1))
x_train, x_test, y_train, y_test = train_test_split

clf = MLP Regressor (max_iter = 1000)
clf.fit (x_train, y_train)
```

Output:

R2 score for the test Data -- 0.968558642162

Result:

The program was successfully executed & verified.