Exp. No. 11   Implementing artifical neural networks
                        for an application using Python - Regression.

Aim:

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

code:

```
from sklearn.neural.network import MLP
regression from sklearn.model-selection import
train.test-split from sklearn.datasets import
make regression.

import numpy as NP
import matplot lib. pyplot as Plt
import seaborn as SNS

% Matplot lib inline

X,y = make - regression (N - samples =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
(x,y , test-size =0.2 , shuffle = True , random - state =42)
```

```
ilf = MLP Regressor (MAX - iter = 1000)
ilf.ft (x_train, y_train)
```

O/P

R_2 Score for test Data = 0.9686558 42152

Result:
The program is successfully executed and
o/p is verified.