Exp:No:11

Implementing artificial neural networks for an application using python - Regression.

Aim:- To Implementing artifical neural networks for an application in regression using python.

Source Code:-

```
from Sklearn.neural-network import
                    MLP regression.
from Sklearn.Model-selection import
                    train-test-split.
from Sklearn.lataset import make
                    regression.
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns.
~~import mat~~
% matplatlib inline
x. y = make-regression.n (n-sample=1
    noise =0.05, n-feature =100)
x.shape. y.shape = ((1000,100),(1000,1
x.train, x-test, y-train, y-test = Hash.
    test-split(x,y, test-size ~~test~~ =0.2
    Shuffy = true, random = 42
elf = MLp Regressor (max-iter, =100
.elf.fit (x-train, y-train.)
```

O/P

R_2 store for left Data = 0.968655P4666
21529

Result:-

The program was successfully executed.