EX NO : 11

Implementing artificial neural network - regression

AIM :-

To implementing artificial neural networks for an application in regression.

SOURCE CODE :-

```
from sklean neural-network import MLP
from sklean model-selection import train-test

import numpy as np.
import matplotlib.pyplot as plt.
import seabon as sns.
%. matplotlib as inline.
x y = make regression (n-samples = 1000
        noise = 0.05, n-features = 100)
if .x.shape y.shape = ((1000, 100), (100))
x-train, x-test, y-train, y-test = train-test-split (x, y, test-size = 0.2,
        random-state = 42). shuffle = True,
```

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

O/P

R_2 Source for test Data
= 0.9686558401529.

RESULT:

The program is succesfully executed and output is verified.