PROGRAM

```
from sklearn.neural_network import MLPRegressor
from sklearn.model_selection import train_test_split
from sklearn.datasets import make_regression

X, y = make_regression(n_samples=1000, noise=0.05,
                       n_features=100)

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2,
                                                    random_state=42)

clf = MLPRegression(max_iter=100)
clf.fit(x_train, y_train)

print(f" R2 score {train}: {clf.score(x_train, y_train}")
print(f"R2 score {train}: {clf.score(X_train, y_train}")
```

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EXP NO: 9

AIM: Implementing Artifical Neural Network for an application using python
REGRESSION

PROCEDURE:

1. Data set preparation- You will need data that consists of input features and corresponding numerical values for train & test.

2. Data Preprocessing: Scaling, Splitting & preparing

3. Model building: Building neural network using libraries like Keras or Tensorflow

4. Training: compiling & Training data

5. Evaluation: Assessing the models performance

RESULT:
Thus the regression model has been implemented.