Practical 13

Demonstration of k – Nearest Neighbour using python program

```python
 # importing libraries

import numpy as nm

import matplotlib.pyplot as mtp

import pandas as pd

#importing datasets

data_set= pd.read_csv('User_Data.csv')

#Extracting Independent and dependent Variable

x= data_set.iloc[:, [2,3]].values

y= data_set.iloc[:, 4].values

# Splitting the dataset into training and test set.

from sklearn.model_selection import train_test_split

x_train, x_test, y_train, y_test= train_test_split(x, y, test_size= 0.25,
random_state=0)

#feature Scaling

from sklearn.preprocessing import StandardScaler

st_x= StandardScaler()

x_train= st_x.fit_transform(x_train)

x_test= st_x.transform(x_test)
```