```
import pandas as pd
from sklearn.model selection import train test split
from sklearn.preprocessing import StandardScaler
from sklearn.neighbors import KNeighborsRegressor
from sklearn.metrics import mean squared error, r2 score
import matplotlib.pyplot as plt
data = {
    'Room Size (sq ft)': [100, 200, 150, 300, 250, 120, 180, 220, 350,
270],
    'Number of Windows': [1, 2, 1, 3, 2, 1, 1, 2, 3, 2],
    'Temperature (°F)': [70, 72, 68, 75, 74, 69, 71, 73, 76, 74]
}
df = pd.DataFrame(data)
print(df.head())
   Room Size (sq ft) Number of Windows Temperature (°F)
0
                                                        70
                 100
                                      1
                                      2
                                                        72
1
                 200
2
                                      1
                 150
                                                        68
                                      3
3
                                                        75
                 300
                                      2
4
                 250
                                                        74
X = df[['Room Size (sq ft)', 'Number of Windows']]
y = df['Temperature (°F)']
X_train, X_test, y_train, y_test = train test split(X, y,
test_size=0.2, random state=42)
scaler = StandardScaler()
X train scaled = scaler.fit transform(X train)
X test scaled = scaler.transform(X test)
k = 3
knn regressor = KNeighborsRegressor(n neighbors=k)
knn regressor.fit(X train scaled, y train)
KNeighborsRegressor(n neighbors=3)
y pred = knn regressor.predict(X test scaled)
rmse = mean_squared_error(y_test, y_pred, squared=False)
r2 = r2 score(y test, y pred)
print(f'Root Mean Squared Error (RMSE): {rmse}')
print(f'R^2 Score: {r2}')
Root Mean Squared Error (RMSE): 1.666666666666714
R^2 Score: 0.305555555555516
```