Write a python program to implement Polynomial Regression for given dataset.

# Importing the libraries

import numpy as np

import matplotlib.pyplot as plt

import pandas as pd

# Importing the dataset

datas = pd.read\_csv(r"C:\Users\swati.joshi\Downloads\data.csv")

datas

X = datas.iloc[:, 1:2].values

y = datas.iloc[:, 2].values

# Fitting Linear Regression to the dataset

from sklearn.linear\_model import LinearRegression

lin = LinearRegression()

lin.fit(X, y)

# Fitting Polynomial Regression to the dataset

from sklearn.preprocessing import PolynomialFeatures

poly = PolynomialFeatures(degree = 4)

X\_poly = poly.fit\_transform(X)

poly.fit(X\_poly, y)

lin2 = LinearRegression()

lin2.fit(X\_poly, y)

# Visualising the Linear Regression results

plt.scatter(X, y, color = 'blue')

plt.plot(X, lin.predict(X), color = 'red')

plt.title('Linear Regression')

plt.xlabel('Temperature')

plt.ylabel('Pressure')

plt.show()

# Visualising the Polynomial Regression results

plt.scatter(X, y, color = 'blue')

plt.plot(X, lin2.predict(poly.fit\_transform(X)), color = 'red')

plt.title('Polynomial Regression')

plt.xlabel('Temperature')

plt.ylabel('Pressure')

plt.show()