1. Write a program example for fitting a linear regression model using 20 data points with 3 features. The program should plot the model and make predictions for new points.
2. Write a program example for fitting polynomial regression model using 12 data points with degree = 5. The program should plot the model and make predictions for new points.
3. Write a program example to fit a k-nearest neighbors (KNN) model with k = 2 using 15 data points. The program should include prediction capabilities and plot the results.