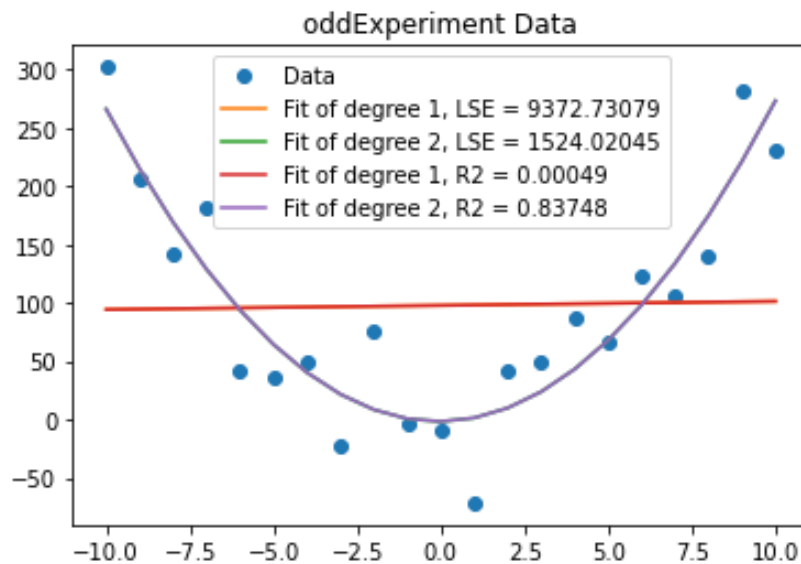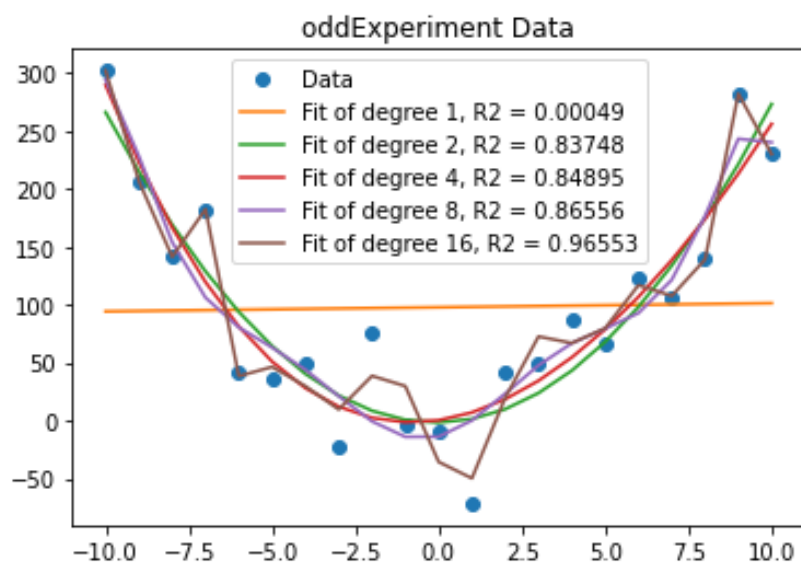An experiment yields the measured data in the file "oddExperiment.txt".

In this exercise use the data points to finish the followings:

1. Plot the data
2. Fit the data by a linear fit and a quadratic fit.
3. Evaluate both fit with both the least square error (mean square error) and R square error (R^2).

oddExperiment Data

4. Try to fit the data with higher degrees [2,4,8,16]. Degree 1, 2 are for reference.

oddExperiment Data

5. Discuss why not use the model in higher degree with R2=0.96553 to predict.
6. Use the data in file "TestDataSet.txt" to back up your points.