**EXPERIMENT 5**

**Comparison between Linear Regression and Polynomial Regression**

**AIM**:- Comparison between Linear Regression and Polynomial Regression

**PROCEDURE**

1. Import pandas
2. Preprocess the data by filling null values and doing label encoding.
3. Split data into train and test using train\_test\_split of sklearn.model\_selection library.
4. Fit x\_train and y\_train into model for LinearRegression.
5. Apply Polynomial Regression and calculate x\_poly.
6. Fit this x\_poly and target column into Linear Model again.
7. Here can be observed that accuracy decreases with the increase in degree of Polynomial Features.

**RESULT:-**

