# EXPERIMENT NO: 4

OUTLIER DETECTION FOR GIVEN DATASET

**Aim:**

To understand and implement a method for detecting outliers in a given dataset.

**Algorithm:**

1. Import NumPy and generate a random array of integers.
2. Calculate mean and percentiles (Q1, Q2, Q3) using np.percentile.
3. Define a function outDetection() to compute IQR, LR, and UR.
4. Use LR and UR to identify and filter out outliers from the array.
5. Visualize the original and filtered data using Seaborn's displot.
6. Reapply outlier detection to confirm no further outliers remain.

**Programm:**

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**Result:**

Thus, the outliers have been detected and the experiment executed successfully.