**Data Visualization Task Insights:**

1. **Histogram of Scores**: Creating a histogram to visualize the distribution of student scores in a specific subject (e.g., Math ). This visualization makes it easier to understand the spread and central tendency of scores.

A graph of a number of scores

Description automatically generated

**2. Bar Chart of Gender Distribution:** Creating a bar chart to show the distribution of students by gender.

This visualization helps analyze gender diversity in the dataset.

A blue and orange rectangular bars

Description automatically generated

**3.Scatter Plot of Writing Score vs. Math Score**: Generate a scatter plot to examine the relationship between student scores (eg: Writing Score vs Math Score).

A graph of writing score

Description automatically generated

4.**Box Plot of Parental Education vs. Math Score** : Creating a box plot to visualize how the level of parental education affects student scores. This can provide insights into whether parental education influences student performance.

A chart of different colored squares

Description automatically generated

5.**Countplot of Test Preparation Course**: Use a count plot to visualize the number of students who completed the test preparation course. This visualization helps analyze how many students took advantage of test preparation resources.

A graph of a test preparation course

Description automatically generated

Each visualization provides insights into different aspects of the student performance dataset, making it easier to analyze and understand the data.

**6. Pie chart of test preparation course**: This pie chart will provide a clear overview of how many students took advantage of the test preparation resources.

A blue and orange pie chart

Description automatically generated