TASK SHEET- STUDENT DATA

1. Plot a grouped bar chart displaying the average math, reading, and writing scores for each parental level of education.
2. Create a stacked area plot showing the cumulative distribution of math scores over different race/ethnicity groups.
3. Generate a histogram overlaying math scores distribution for students who completed the test preparation course vs. those who didn't.
4. Plot a line chart showing the trend of writing scores over different lunch types.
5. Create a stacked bar chart displaying the number of students who completed the test preparation course, grouped by parental level of education.
6. Generate a box plot for reading scores grouped by lunch types.
7. Plot a scatter plot showing the relationship between math scores and writing scores, with different colors for different lunch types.
8. Create a grouped bar chart displaying the average reading and writing scores for each race/ethnicity.
9. Generate a violin plot for writing scores grouped by parental level of education.
10. Plot a pie chart representing the distribution of test preparation completion across different race/ethnicity groups.
11. Create a bar chart displaying the average math scores for each combination of parental level of education and test preparation completion status.
12. Generate a scatter plot matrix showing the relationships between math, reading, and writing scores.
13. Plot a stacked bar chart showing the number of students who completed the test preparation course, grouped by parental level of education and gender.
14. Create a line chart showing the trend of math scores over different lunch types.
15. Generate a box plot for reading scores grouped by test preparation completion status.