TASK SHEET

1. Plot a stacked bar chart showing the distribution of lunch types (free/reduced vs. standard) across different parental levels of education.
2. Create a scatter plot showing the relationship between math scores and writing scores, with marker size indicating reading scores.
3. Generate a histogram of reading scores overlayed with a kernel density estimate.
4. Plot a grouped bar chart displaying the average math, reading, and writing scores for each gender.
5. Create a box plot for writing scores grouped by test preparation completion status.
6. Generate a violin plot for reading scores grouped by parental level of education and gender.
7. Plot a line chart showing the trend of writing scores over different parental levels of education, with a separate line for each gender.
8. Create a bar chart displaying the average reading scores for each combination of parental level of education and race/ethnicity.
9. Generate a scatter plot matrix showing the relationships between math, reading, and writing scores, colored by gender.
10. Plot a pie chart representing the distribution of test preparation completion across different parental levels of education.
11. Create a stacked bar chart displaying the number of students who completed the test preparation course, grouped by race/ethnicity and gender.
12. Generate a box plot for math scores grouped by lunch types and test preparation completion status.
13. Plot a grouped bar chart displaying the average reading and writing scores for each lunch type.
14. Create a line chart showing the trend of math scores over different race/ethnicity groups, with a separate line for each parental level of education.
15. Generate a scatter plot showing the relationship between math scores and reading scores, with marker color indicating test preparation completion status.