Part 1: Question 1 - Top 5 Games by Global Sales

Data Analysis and Visualization:

Data Selection: Identified the top 5 games by sorting the dataset based on 'Global\_Sales'.

Visualization Design: Used a horizontal bar chart for a clear and straightforward representation.

Design Decisions:

Palette: Chose the 'coolwarm' palette for an appealing contrast.

Bar Orientation: Horizontal bars provide better readability for game names.

Gridlines and Labels: Added for ease of reading sales figures.

Title and Labels: Clearly specified to convey the purpose of the chart.

Top 5 Games by Global Sales:

Wii Sports: 82.53 million

Super Mario Bros.: 40.24 million

Mario Kart Wii: 35.52 million

Wii Sports Resort: 32.77 million

Pokemon Red/Pokemon Blue: 31.37 million

Part 1: Question 2 - Correlation between NA\_Sales and JP\_Sales (2010-2014)

Data Analysis and Visualization:

Data Filtering: Selected data for the years 2010-2014.

Correlation Calculation: Computed the Pearson correlation coefficient between NA\_Sales and JP\_Sales.

Visualization Design: Used a heatmap to visually represent the correlation.

Design Decisions:

Color Map (cmap): 'Blues' palette for a calm and clear visual representation of correlation values.

Annotations: Enabled to show exact correlation values.

No Color Bar (cbar): Omitted as the focus is on a single correlation value, making a color bar less relevant.

Title and Labels: Clearly defined for comprehension.

Findings:

The correlation coefficient between NA\_Sales and JP\_Sales for the years 2010-2014 is approximately 0.26, indicating a weak positive correlation.