Introduction This report summarizes the findings from an analysis of book prices scraped from eBay. The analysis aimed to determine the average price of books, identify the most common price range category, and visualize the distribution of products across different price ranges.

Data Collection and Processing Data was collected from the first 10 book listings on eBay using web scraping techniques. Titles and prices of the books were extracted and stored in a CSV file. The data was then cleaned and transformed to handle missing values and convert prices to numerical format. Products were categorized into three price ranges: Low (< $20), Medium ($20-$50), and High (> $50).

Findings

1. **Average Price of Products**:
   o The average price of the books is **$23.30**. This indicates that most books listed on eBay are moderately priced.
2. **Most Common Price Range Category**:
   o The price range category with the most products is **'Medium'** (prices between $20 and $50).
   o Potential Reasons:
       ▪ **Market Demand**: The medium price range likely represents a balance between affordability and perceived value, appealing to a broad audience of buyers.
       ▪ **Product Quality**: Books in this range may offer better quality or more comprehensive content compared to cheaper alternatives, making them more attractive to consumers.
       ▪ **Seller Strategy**: Sellers might price their books in the medium range to maximize sales and profit margins, positioning their products competitively within the market.
3. **Visualization**:
   o The bar plot below shows the number of products in each price range category
4. **Bonus Task**

   Modified Task 1 to scrape data from a website with dynamic content used selenium modules

Conclusion The analysis reveals that the average price of books on eBay is approximately $23.30-without dynamic implementation and with dynamic implementation-23.49, with the majority falling into the medium price range category ($20-$50). This insight can be useful for sellers aiming to price their products competitively and for buyers looking to understand market trends.