I decided to do something different than take data from a .csv file and explore api's. My first challenge was not being able to find Walmarts public catalog api so I had to use a third party one to do so. The analysis with this Walmart API, the response handling and product information extraction incorporated into the Python script, which makes use of JSON parsing to organize and display essential product details, including links, ratings, images, prices, and sellers. The search successfully returned a list of shoes, and the next step would be to analyze the inventory and pricing patterns for potential business opportunities. The code successfully connected to the API, handled the response, and extracted key information about each product. The goal is to find high demand and low supply products. The search for "Nike shoes" on Walmart's Marketplace returned many products, with the relevant details including product titles, prices, and availability. These items are primarily sold by third-party vendors, and the results include various Nike shoes, such as the Nike Downshifter 12, Nike Metcon 7, and Nike Dunk Low Retro, with prices ranging from $79.32 to $120. Following up with this code there are some visualizations such has the price range for these shoes shown in graph 1. Then distribution of product ratings, top sellers by number of products, and lastly, price vs. ratings total. The following steps would be to better explore items that are close to selling out and have many selling. Also, I want to exclude Walmart from selling, I want to find products that are only from 3rd party sellers. This is to better enter the market knowing that I will also sell.