1. **Write a python program with proper class, function, and comments and generate the following output. Please note the code should work for any file with same column header.**

**For “Amazon Sale Report.csv”**

1. Import the given dataset to pandas data frame
2. Create a data frame and dump result in xlsx with proper reporting format in different sheet of single xlsx
3. **Sheet 1 name “State Orders”** - Report to show total number of sales with regards to ship-state
4. **Sheet 2 name “Category Orders”** – Report to show total number of sales with category
5. **Sheet 3 name “Top 20 products”** – Report to show top 20 selling products and total units sold.

**For “Price Data.xlsx”**

1. From the given “Price Data.xlsx” create a xml feed as per the format below:

<?xml version='1.0' encoding='utf-16'?>

<AmazonEnvelope>

<Header>

<DocumentVersion>4</DocumentVersion>

</Header>

<MessageType>Price</MessageType>

<Message>

<MessageID>1</MessageID>

<OperationType>Update</OperationType>

<Price>

<SKU>abc</SKU>

<StandardPrice currency="USD">41.44</StandardPrice>

</Price>

</Message>

<Message>

<MessageID>2</MessageID>

<OperationType>Update</OperationType>

<Price>

<SKU>def</SKU>

<StandardPrice currency="USD">9.83</StandardPrice>

<BusinessPrice>9.48</BusinessPrice>

</Price>

</Message>

</AmazonEnvelope>

1. Write a scraper to extract product data from any one of the ecommerce site and needs to have data attribute:

* Product SKU
* Product Name
* Product Description
* Product Image URL
* Other Product Image URL
* Price
* Discounted Price
* Category : Breadcrumb