

```
In [1]: import pandas as pd
import os
```

## Task 1: Merging 12 months of sales data into a single file

```
In [2]: df = pd.read_csv("./Documents/SalesAnalysis/Sales_Data/Sales_April_2019.csv")

files = [file for file in os.listdir('./Documents/SalesAnalysis/Sales_Data')]

for file in files:
    print(file)
```

```
Sales_April_2019.csv
Sales_August_2019.csv
Sales_December_2019.csv
Sales_February_2019.csv
Sales_January_2019.csv
Sales_July_2019.csv
Sales_June_2019.csv
Sales_March_2019.csv
Sales_May_2019.csv
Sales_November_2019.csv
Sales_October_2019.csv
Sales_September_2019.csv
```

```
In [3]: files = [file for file in os.listdir('./Documents/SalesAnalysis/Sales_Data')]

all_months_data = pd.DataFrame()

for file in files:
    df = pd.read_csv("./Documents/SalesAnalysis/Sales_Data/"+file)
    all_months_data = pd.concat([all_months_data, df])

all_months_data.to_csv("all_data.csv", index = False)
```

## Read in updated dataframe

```
In [4]: all_data = pd.read_csv("all_data.csv")
all_data.head()
```

Out[4]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address
0	176558	USB-C Charging Cable	2	11.95	04/19/19 08:46	917 1st St, Dallas, TX 75001
1	NaN	NaN	NaN	NaN	NaN	NaN
2	176559	Bose SoundSport Headphones	1	99.99	04/07/19 22:30	682 Chestnut St, Boston, MA 02215
3	176560	Google Phone	1	600	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001
4	176560	Wired Headphones	1	11.99	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001

## Clean the data

```
In [5]: all_data.head(100)
```

Out[5]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address
0	176558	USB-C Charging Cable	2	11.95	04/19/19 08:46	917 1st St, Dallas, TX 75001
1	NaN	NaN	NaN	NaN	NaN	NaN
2	176559	Bose SoundSport Headphones	1	99.99	04/07/19 22:30	682 Chestnut St, Boston, MA 02215
3	176560	Google Phone	1	600	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001
4	176560	Wired Headphones	1	11.99	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001
...	...	...	...	...	...	...
95	176648	27in FHD Monitor	1	149.99	04/24/19 01:17	732 2nd St, Portland, OR 97035
96	176649	USB-C Charging Cable	1	11.95	04/09/19 08:49	702 11th St, San Francisco, CA 94016
97	176650	Lightning Charging Cable	1	14.95	04/12/19 16:47	153 River St, Boston, MA 02215
98	176651	iPhone	1	700	04/07/19 13:14	997 South St, Boston, MA 02215
99	176652	LG Washing Machine	1	600.0	04/09/19 20:04	502 14th St, New York City, NY 10001

100 rows × 6 columns

## Drop rows of NaN

```
In [6]: nan_df = all_data[all_data.isna().any(axis=1)]
nan_df.head()
```

Out[6]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address
	1	NaN	NaN	NaN	NaN	NaN
	356	NaN	NaN	NaN	NaN	NaN
	735	NaN	NaN	NaN	NaN	NaN
	1433	NaN	NaN	NaN	NaN	NaN
	1553	NaN	NaN	NaN	NaN	NaN

```
In [7]: all_data = all_data.dropna(how='all')
all_data.head()
```

Out[7]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address
0	176558	USB-C Charging Cable	2	11.95	04/19/19 08:46	917 1st St, Dallas, TX 75001
2	176559	Bose SoundSport Headphones	1	99.99	04/07/19 22:30	682 Chestnut St, Boston, MA 02215
3	176560	Google Phone	1	600	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001
4	176560	Wired Headphones	1	11.99	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001
5	176561	Wired Headphones	1	11.99	04/30/19 09:27	333 8th St, Los Angeles, CA 90001

## Task 2: Add month column

```
In [8]: all_data = all_data[all_data['Order Date'].str[0:2] != '0r']    # error caused due to invalid string.
```

```
In [9]: all_data['Month'] = all_data['Order Date'].str[0:2]
all_data['Month'] = all_data['Month'].astype('int32')
all_data.head()
```

Out[9]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month
0	176558	USB-C Charging Cable	2	11.95	04/19/19 08:46	917 1st St, Dallas, TX 75001	4
2	176559	Bose SoundSport Headphones	1	99.99	04/07/19 22:30	682 Chestnut St, Boston, MA 02215	4
3	176560	Google Phone	1	600	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001	4
4	176560	Wired Headphones	1	11.99	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001	4
5	176561	Wired Headphones	1	11.99	04/30/19 09:27	333 8th St, Los Angeles, CA 90001	4

### Task 3: Add Sales column

```
In [10]: all_data['Quantity Ordered'] = pd.to_numeric(all_data['Quantity Ordered']) # making integer
all_data['Price Each'] = pd.to_numeric(all_data['Price Each']) # making float
all_data.head()

all_data['Sales'] = all_data['Quantity Ordered'] * all_data['Price Each']
all_data.head()
```

Out[10]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month	Sales
0	176558	USB-C Charging Cable	2	11.95	04/19/19 08:46	917 1st St, Dallas, TX 75001	4	23.90
2	176559	Bose SoundSport Headphones	1	99.99	04/07/19 22:30	682 Chestnut St, Boston, MA 02215	4	99.99
3	176560	Google Phone	1	600.00	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001	4	600.00
4	176560	Wired Headphones	1	11.99	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001	4	11.99
5	176561	Wired Headphones	1	11.99	04/30/19 09:27	333 8th St, Los Angeles, CA 90001	4	11.99

**1: What was the best month for sale? How much was earned that month?**

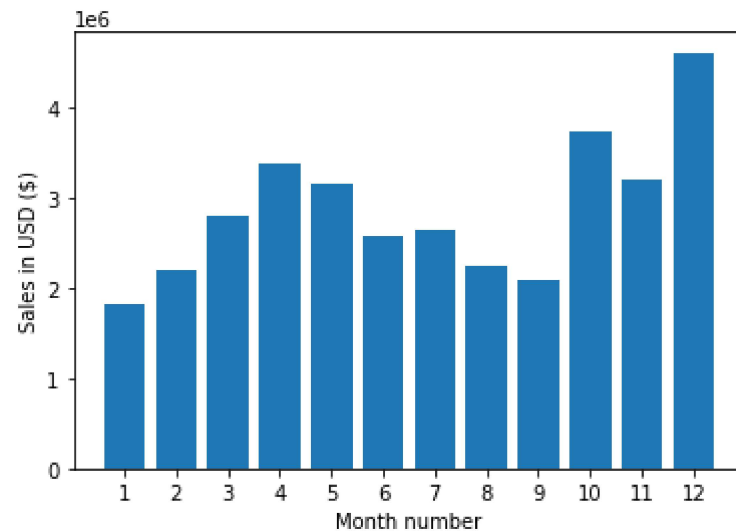
```
In [11]: result = all_data.groupby('Month').sum()  
result
```

Out[11]:

	Quantity Ordered	Price Each	Sales
Month			
1	10903	1811768.38	1822256.73
2	13449	2188884.72	2202022.42
3	17005	2791207.83	2807100.38
4	20558	3367671.02	3390670.24
5	18667	3135125.13	3152606.75
6	15253	2562025.61	2577802.26
7	16072	2632539.56	2647775.76
8	13448	2230345.42	2244467.88
9	13109	2084992.09	2097560.13
10	22703	3715554.83	3736726.88
11	19798	3180600.68	3199603.20
12	28114	4588415.41	4613443.34

```
In [12]: import matplotlib.pyplot as plt
```

```
months = range(1, 13)  
plt.bar(months, result['Sales'])  
plt.xticks(months)  
plt.ylabel('Sales in USD ($)')  
plt.xlabel('Month number')  
plt.show()
```



**2: Which city had the highest no. of sales?**

**Task 4: Add city column**

```
In [13]: def get_city(address):
          return address.split(',')[1]           # function to get only city name

def get_state(address):
    return address.split(',')[2].split(' ')[1]   # function to get city name along with country code.

all_data['City'] = all_data['Purchase Address'].apply(lambda x: f"{get_city(x)} ({get_state(x)})")
all_data.head()
```

Out[13]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month	Sales	City
0	176558	USB-C Charging Cable	2	11.95	04/19/19 08:46	917 1st St, Dallas, TX 75001	4	23.90	Dallas (TX)
2	176559	Bose SoundSport Headphones	1	99.99	04/07/19 22:30	682 Chestnut St, Boston, MA 02215	4	99.99	Boston (MA)
3	176560	Google Phone	1	600.00	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001	4	600.00	Los Angeles (CA)
4	176560	Wired Headphones	1	11.99	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)
5	176561	Wired Headphones	1	11.99	04/30/19 09:27	333 8th St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)

```
In [14]: results = all_data.groupby('City').sum()  
results
```

Out[14]:

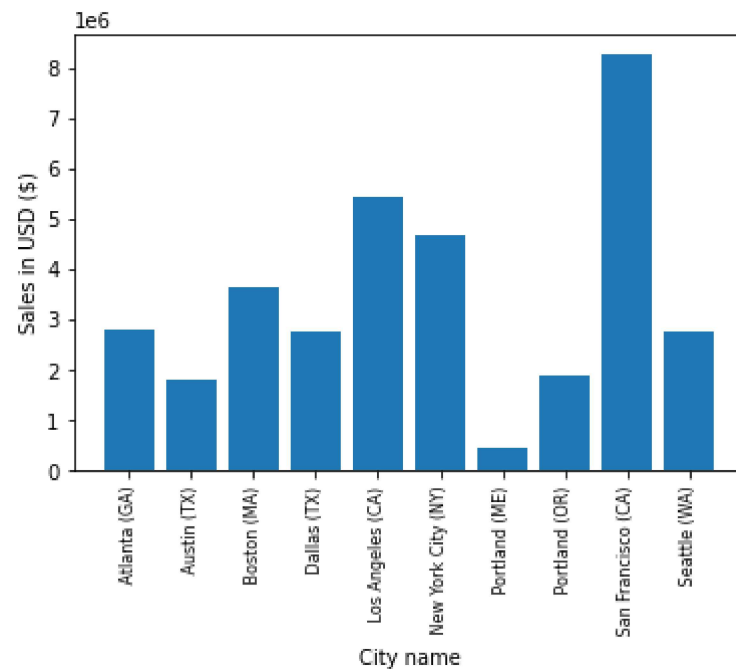
	Quantity Ordered	Price Each	Month	Sales
City				
Atlanta (GA)	16602	2779908.20	104794	2795498.58
Austin (TX)	11153	1809873.61	69829	1819581.75
Boston (MA)	22528	3637409.77	141112	3661642.01
Dallas (TX)	16730	2752627.82	104620	2767975.40
Los Angeles (CA)	33289	5421435.23	208325	5452570.80
New York City (NY)	27932	4635370.83	175741	4664317.43
Portland (ME)	2750	447189.25	17144	449758.27
Portland (OR)	11303	1860558.22	70621	1870732.34
San Francisco (CA)	50239	8211461.74	315520	8262203.91
Seattle (WA)	16553	2733296.01	104941	2747755.48



```
In [15]: import matplotlib.pyplot as plt

cities = [city for city, df in all_data.groupby('City')]

plt.bar(cities, results['Sales'])
plt.xticks(cities, rotation = 'vertical', size = 8)
plt.ylabel('Sales in USD ($)')
plt.xlabel('City name')
plt.show()
```



### 3: What time should we display ads to maximize likelihood of customer's buying product?

In [16]: `all_data.head()` *# what data looks like.*

Out[16]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month	Sales	City
0	176558	USB-C Charging Cable	2	11.95	04/19/19 08:46	917 1st St, Dallas, TX 75001	4	23.90	Dallas (TX)
2	176559	Bose SoundSport Headphones	1	99.99	04/07/19 22:30	682 Chestnut St, Boston, MA 02215	4	99.99	Boston (MA)
3	176560	Google Phone	1	600.00	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001	4	600.00	Los Angeles (CA)
4	176560	Wired Headphones	1	11.99	04/12/19 14:38	669 Spruce St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)
5	176561	Wired Headphones	1	11.99	04/30/19 09:27	333 8th St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)

```
In [17]: all_data['Order Date'] = pd.to_datetime(all_data['Order Date'])
all_data['Hour'] = all_data['Order Date'].dt.hour
all_data['Minute'] = all_data['Order Date'].dt.minute
all_data.head()
```

Out[17]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month	Sales	City	Hour	Minute
0	176558	USB-C Charging Cable	2	11.95	2019-04-19 08:46:00	917 1st St, Dallas, TX 75001	4	23.90	Dallas (TX)	8	46
2	176559	Bose SoundSport Headphones	1	99.99	2019-04-07 22:30:00	682 Chestnut St, Boston, MA 02215	4	99.99	Boston (MA)	22	30
3	176560	Google Phone	1	600.00	2019-04-12 14:38:00	669 Spruce St, Los Angeles, CA 90001	4	600.00	Los Angeles (CA)	14	38
4	176560	Wired Headphones	1	11.99	2019-04-12 14:38:00	669 Spruce St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)	14	38
5	176561	Wired Headphones	1	11.99	2019-04-30 09:27:00	333 8th St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)	9	27

```
In [18]: all_data[all_data["Hour"] == all_data["Hour"].max()]
```

```
Out[18]:
```

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month	Sales	City	Hour	Minute
23	176578	Apple Airpods Headphones	1	150.00	2019-04-09 23:35:00	513 Church St, Boston, MA 02215	4	150.00	Boston (MA)	23	35
41	176594	Wired Headphones	1	11.99	2019-04-17 23:04:00	63 Maple St, San Francisco, CA 94016	4	11.99	San Francisco (CA)	23	4
70	176623	27in FHD Monitor	1	149.99	2019-04-20 23:51:00	807 12th St, Atlanta, GA 30301	4	149.99	Atlanta (GA)	23	51
150	176700	34in Ultrawide Monitor	1	379.99	2019-04-07 23:10:00	967 Walnut St, Dallas, TX 75001	4	379.99	Dallas (TX)	23	10
158	176708	Wired Headphones	1	11.99	2019-04-28 23:03:00	542 Ridge St, New York City, NY 10001	4	11.99	New York City (NY)	23	3
...	...	...	...	...	...	...	...	...	...	...	...
186787	259299	Macbook Pro Laptop	1	1700.00	2019-09-30 23:59:00	240 Chestnut St, Los Angeles, CA 90001	9	1700.00	Los Angeles (CA)	23	59
186816	259326	AAA Batteries (4-pack)	3	2.99	2019-09-15 23:01:00	163 Church St, New York City, NY 10001	9	8.97	New York City (NY)	23	1
186830	259339	USB-C Charging Cable	2	11.95	2019-09-12 23:43:00	509 Park St, Austin, TX 73301	9	23.90	Austin (TX)	23	43
186835	259344	AAA Batteries (4-pack)	2	2.99	2019-09-10 23:33:00	721 Madison St, San Francisco, CA 94016	9	5.98	San Francisco (CA)	23	33
186836	259345	ThinkPad Laptop	1	999.99	2019-09-21 23:12:00	406 Dogwood St, San Francisco, CA 94016	9	999.99	San Francisco (CA)	23	12

6275 rows × 11 columns

```
In [19]: all_data["Hour"].value_counts()
```

```
Out[19]: 19    12905
         12    12587
         11    12411
         18    12280
         20    12228
         13    12129
         14    10984
         10    10944
         21    10921
         17    10899
         16    10384
         15    10175
         22     8822
          9     8748
         23     6275
          8     6256
          7     4011
          0     3910
          6     2482
          1     2350
          5     1321
          2     1243
          4      854
          3      831
         Name: Hour, dtype: int64
```

**4: what product are most often sold together?**

```
In [20]: all_data.head()
```

```
Out[20]:
```

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month	Sales	City	Hour	Minute
0	176558	USB-C Charging Cable	2	11.95	2019-04-19 08:46:00	917 1st St, Dallas, TX 75001	4	23.90	Dallas (TX)	8	46
2	176559	Bose SoundSport Headphones	1	99.99	2019-04-07 22:30:00	682 Chestnut St, Boston, MA 02215	4	99.99	Boston (MA)	22	30
3	176560	Google Phone	1	600.00	2019-04-12 14:38:00	669 Spruce St, Los Angeles, CA 90001	4	600.00	Los Angeles (CA)	14	38
4	176560	Wired Headphones	1	11.99	2019-04-12 14:38:00	669 Spruce St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)	14	38
5	176561	Wired Headphones	1	11.99	2019-04-30 09:27:00	333 8th St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)	9	27

```
In [21]: df = all_data[all_data['Order ID'].duplicated(keep=False)]    # to find the products which have same order ID.
df.head(10)
```

Out[21]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month	Sales	City	Hour	Minute
3	176560	Google Phone	1	600.00	2019-04-12 14:38:00	669 Spruce St, Los Angeles, CA 90001	4	600.00	Los Angeles (CA)	14	38
4	176560	Wired Headphones	1	11.99	2019-04-12 14:38:00	669 Spruce St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)	14	38
18	176574	Google Phone	1	600.00	2019-04-03 19:42:00	20 Hill St, Los Angeles, CA 90001	4	600.00	Los Angeles (CA)	19	42
19	176574	USB-C Charging Cable	1	11.95	2019-04-03 19:42:00	20 Hill St, Los Angeles, CA 90001	4	11.95	Los Angeles (CA)	19	42
30	176585	Bose SoundSport Headphones	1	99.99	2019-04-07 11:31:00	823 Highland St, Boston, MA 02215	4	99.99	Boston (MA)	11	31
31	176585	Bose SoundSport Headphones	1	99.99	2019-04-07 11:31:00	823 Highland St, Boston, MA 02215	4	99.99	Boston (MA)	11	31
32	176586	AAA Batteries (4-pack)	2	2.99	2019-04-10 17:00:00	365 Center St, San Francisco, CA 94016	4	5.98	San Francisco (CA)	17	0
33	176586	Google Phone	1	600.00	2019-04-10 17:00:00	365 Center St, San Francisco, CA 94016	4	600.00	San Francisco (CA)	17	0
119	176672	Lightning Charging Cable	1	14.95	2019-04-12 11:07:00	778 Maple St, New York City, NY 10001	4	14.95	New York City (NY)	11	7
120	176672	USB-C Charging Cable	1	11.95	2019-04-12 11:07:00	778 Maple St, New York City, NY 10001	4	11.95	New York City (NY)	11	7

```
In [22]: df = all_data[all_data['Order ID'].duplicated(keep=False)]

df['Grouped'] = df.groupby('Order ID')['Product'].transform(lambda x: ','.join(x)) # Creeating a new column t
df = df[['Order ID', 'Grouped']].drop_duplicates() # ID products in one column
df.head(10)
```

C:\Users\Shashank\AppData\Local\Temp\ipykernel\_8764\727416753.py:3: SettingWithCopyWarning:  
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy) ([https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy))

```
df['Grouped'] = df.groupby('Order ID')['Product'].transform(lambda x: ','.join(x)) # Creeating a new column to get same order
```

Out[22]:

	Order ID	Grouped
3	176560	Google Phone,Wired Headphones
18	176574	Google Phone,USB-C Charging Cable
30	176585	Bose SoundSport Headphones,Bose SoundSport Hea...
32	176586	AAA Batteries (4-pack),Google Phone
119	176672	Lightning Charging Cable,USB-C Charging Cable
129	176681	Apple Airpods Headphones,ThinkPad Laptop
138	176689	Bose SoundSport Headphones,AAA Batteries (4-pack)
189	176739	34in Ultrawide Monitor,Google Phone
225	176774	Lightning Charging Cable,USB-C Charging Cable
233	176781	iPhone,Lightning Charging Cable



```
In [23]: from itertools import combinations
from collections import Counter

count = Counter()

# snippet to get the products which are ordered together. (2 products at a time)

for row in df['Grouped']:
    row_list = row.split(',')
    count.update(Counter(combinations(row_list, 2)))

for key, value in count.most_common(10):
    print(key, value)
```

(('iPhone', 'Lightning Charging Cable') 1005  
('Google Phone', 'USB-C Charging Cable') 987  
('iPhone', 'Wired Headphones') 447  
('Google Phone', 'Wired Headphones') 414  
('Vareebadd Phone', 'USB-C Charging Cable') 361  
('iPhone', 'Apple Airpods Headphones') 360  
('Google Phone', 'Bose SoundSport Headphones') 220  
('USB-C Charging Cable', 'Wired Headphones') 160  
('Vareebadd Phone', 'Wired Headphones') 143  
('Lightning Charging Cable', 'Wired Headphones') 92)

```
In [24]: from itertools import combinations
from collections import Counter

count = Counter()

# snippet to get the products which are ordered together. (3 products at a time)

for row in df['Grouped']:
    row_list = row.split(',')
    count.update(Counter(combinations(row_list, 3)))

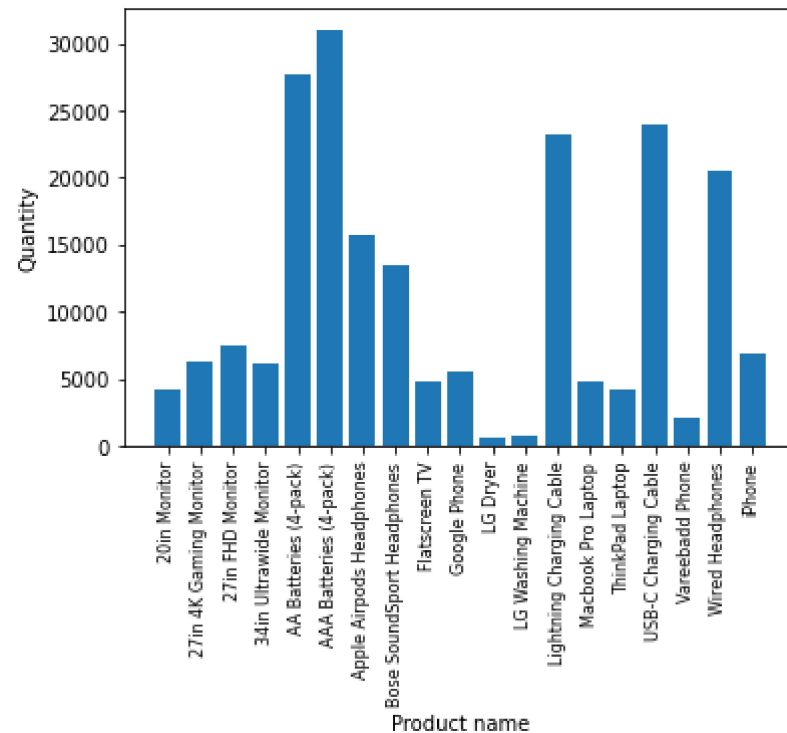
for key, value in count.most_common(10):
    print(key, value)
```

('Google Phone', 'USB-C Charging Cable', 'Wired Headphones') 87  
('iPhone', 'Lightning Charging Cable', 'Wired Headphones') 62  
('iPhone', 'Lightning Charging Cable', 'Apple AirPods Headphones') 47  
('Google Phone', 'USB-C Charging Cable', 'Bose SoundSport Headphones') 35  
('Vareebadd Phone', 'USB-C Charging Cable', 'Wired Headphones') 33  
('iPhone', 'Apple AirPods Headphones', 'Wired Headphones') 27  
('Google Phone', 'Bose SoundSport Headphones', 'Wired Headphones') 24  
('Vareebadd Phone', 'USB-C Charging Cable', 'Bose SoundSport Headphones') 16  
('USB-C Charging Cable', 'Bose SoundSport Headphones', 'Wired Headphones') 5  
('Vareebadd Phone', 'Bose SoundSport Headphones', 'Wired Headphones') 5

**5: What product sold the most? Why do you think it sold the most?**

```
In [27]: product_group = all_data.groupby('Product')
quantity_ordered = product_group.sum()['Quantity Ordered']

keys = [pair for pair, df in product_group]
plt.bar(keys, quantity_ordered)
plt.xticks(keys, rotation='vertical', size=8)
plt.ylabel("Quantity")
plt.xlabel("Product name")
plt.show()
```





In [28]: *# Referenced: <https://stackoverflow.com/questions/14762181/adding-a-y-axis-label-to-secondary-y-axis-in-matplotlib>*

```
prices = all_data.groupby('Product').mean()['Price Each']

fig, ax1 = plt.subplots()

ax2 = ax1.twinx()
ax1.bar(keys, quantity_ordered, color='g')
ax2.plot(keys, prices, color='b')

ax1.set_xlabel('Product Name')
ax1.set_ylabel('Quantity Ordered', color='g')
ax2.set_ylabel('Price ($)', color='b')
ax1.set_xticklabels(keys, rotation='vertical', size=8)

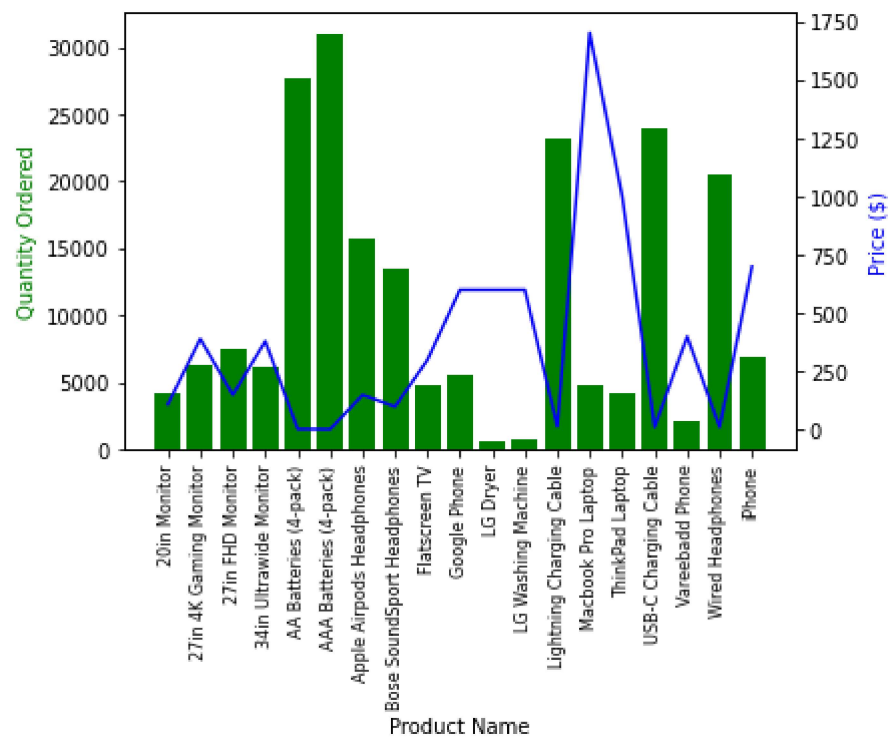
fig.show()
```

C:\Users\Shashank\AppData\Local\Temp\ipykernel\_8764\136096346.py:14: UserWarning: FixedFormatter should only be used together with FixedLocator

```
ax1.set_xticklabels(keys, rotation='vertical', size=8)
```

C:\Users\Shashank\AppData\Local\Temp\ipykernel\_8764\136096346.py:16: UserWarning: Matplotlib is currently using module://matplotlib\_inline.backend\_inline, which is a non-GUI backend, so cannot show the figure.

```
fig.show()
```



In [30]: `all_data.head()`

Out[30]:

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month	Sales	City	Hour	Minute
0	176558	USB-C Charging Cable	2	11.95	2019-04-19 08:46:00	917 1st St, Dallas, TX 75001	4	23.90	Dallas (TX)	8	46
2	176559	Bose SoundSport Headphones	1	99.99	2019-04-07 22:30:00	682 Chestnut St, Boston, MA 02215	4	99.99	Boston (MA)	22	30
3	176560	Google Phone	1	600.00	2019-04-12 14:38:00	669 Spruce St, Los Angeles, CA 90001	4	600.00	Los Angeles (CA)	14	38
4	176560	Wired Headphones	1	11.99	2019-04-12 14:38:00	669 Spruce St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)	14	38
5	176561	Wired Headphones	1	11.99	2019-04-30 09:27:00	333 8th St, Los Angeles, CA 90001	4	11.99	Los Angeles (CA)	9	27

```
In [41]: all_data['Product'].value_counts()
```

```
Out[41]: USB-C Charging Cable      21903
Lightning Charging Cable      21658
AAA Batteries (4-pack)        20641
AA Batteries (4-pack)         20577
Wired Headphones              18882
Apple AirPods Headphones      15549
Bose SoundSport Headphones    13325
27in FHD Monitor              7507
iPhone                        6842
27in 4K Gaming Monitor        6230
34in Ultrawide Monitor        6181
Google Phone                  5525
Flatscreen TV                 4800
Macbook Pro Laptop            4724
ThinkPad Laptop               4128
20in Monitor                  4101
Vareebadd Phone               2065
LG Washing Machine            666
LG Dryer                      646
Name: Product, dtype: int64
```

```
In [ ]:
```