

#FIRST QUESTION

1. Create a dataframe 'fruits' that looks like this

```
In [2]: import pandas as pd
import numpy as np
```

```
In [3]: list = ({'Apples': [30, 15, 25, 14, 11, 33, 28, 19], 'Bananas': [15, 18, 42, 22,
Fruits = pd.DataFrame(list)
print(Fruits)
```

	Apples	Bananas
0	30	15
1	15	18
2	25	42
3	14	22
4	11	17
5	33	29
6	28	38
7	19	31

```
In [ ]:
```

#2ND QUESTION

2. Create a dataframe fruit_sales that matches the diagram below

```
In [4]: list = ({'Apples': [30, 15, 25, 14, 11], 'Bananas': [15, 18, 42, 22, 17]})
Fruits = pd.DataFrame(list, index = ['2017 sales', '2018 sales', '2019 sales', '2
print(Fruits)
```

	Apples	Bananas
2017 sales	30	15
2018 sales	15	18
2019 sales	25	42
2020 sales	14	22
2021 sales	11	17

```
In [ ]:
```

```
In [ ]:
```

3. Create a variable ingredients with a Series that looks like:

```
Flour      4 cups
Milk       1 cup
Eggs       2 large
Spam       1 can
Name: Dinner, dtype: object
```

```
In [5]: list2 = np.array(['4 cups', '1 cup', '2 large', '1 can'])
Ingredients = pd.Series(list2, index = ['Flour', 'Milk', 'Eggs', 'Spam'])
Ingredients
```

```
Out[5]: Flour      4 cups
Milk        1 cup
Eggs       2 large
Spam        1 can
dtype: object
```

```
In [ ]:
```

5. a. Create a dataframe using the code below `animals = pd.DataFrame({'Cows': [12, 20], 'Goats': [22, 19]}, index=['Year 1', 'Year 2'])` animals b. save this dataframe as a csv file

```
In [6]: Animals = pd.DataFrame({'Cows': [12, 20], 'Goats': [22, 19]}, index=['Year 1', 'Year 2'])
Animals
```

```
Out[6]:
```

	Cows	Goats
Year 1	12	22
Year 2	20	19

```
In [ ]:
```

#4TH QUESTION

4. Download and read in any dataset of your choice, display the first and last 20 rows of the dataset.
- Using the details you get from info and describe function, write a 2 to 3 line reflection on your data

```
In [7]: wine_review2 = pd.read_csv('Wine_review.csv', index_col = 0)
wine_review2
```

Out[7]:

	country	description	designation	points	price	province	region_1	region_2	
0	US	This tremendous 100% varietal wine hails from ...	Martha's Vineyard	96	235.0	California	Napa Valley	Napa	
1	Spain	Ripe aromas of fig, blackberry and cassis are ...	Carodorum Selección Especial Reserva	96	110.0	Northern Spain	Toro	NaN	
2	US	Mac Watson honors the memory of a wine once ma...	Special Selected Late Harvest	96	90.0	California	Knights Valley	Sonoma	
3	US	This spent 20 months in 30% new French oak, an...	Reserve	96	65.0	Oregon	Willamette Valley	Willamette Valley	
4	France	This is the top wine from La Bégude, named aft...	La Brûlade	95	66.0	Provence	Bandol	NaN	
...	
150925	Italy	Many people feel Fiano represents southern Ita...	NaN	91	20.0	Southern Italy	Fiano di Avellino	NaN	W
150926	France	Offers an intriguing nose with ginger, lime an...	Cuvée Prestige	91	27.0	Champagne	Champagne	NaN	C
150927	Italy	This classic example comes from a cru vineyard...	Terre di Dora	91	20.0	Southern Italy	Fiano di Avellino	NaN	W
150928	France	A perfect salmon shade, with scents of peaches...	Grand Brut Rosé	90	52.0	Champagne	Champagne	NaN	C

	country	description	designation	points	price	province	region_1	region_2	
150929	Italy	More Pinot Grigios should taste like this. A r...	NaN	90	15.0	Northeastern Italy	Alto Adige	NaN	P

150930 rows × 10 columns

In [9]: `wine_review2.head(20)`

Out[9]:

	country	description	designation	points	price	province	region_1	region_2	va
0	US	This tremendous 100% varietal wine hails from ...	Martha's Vineyard	96	235.0	California	Napa Valley	Napa	Cab Sauv
1	Spain	Ripe aromas of fig, blackberry and cassis are ...	Carodorum Selección Especial Reserva	96	110.0	Northern Spain	Toro	NaN	Tin
2	US	Mac Watson honors the memory of a wine once ma...	Special Selected Late Harvest	96	90.0	California	Knights Valley	Sonoma	Sauvi E
3	US	This spent 20 months in 30% new French oak, an...	Reserve	96	65.0	Oregon	Willamette Valley	Willamette Valley	Pinot
4	France	This is the top wine from La Bégude, named aft...	La Brûlade	95	66.0	Provence	Bandol	NaN	Prov red t
5	Spain	Deep, dense and pure from the opening bell, th...	Numanthia	95	73.0	Northern Spain	Toro	NaN	Tin
6	Spain	Slightly gritty black-fruit aromas include a s...	San Román	95	65.0	Northern Spain	Toro	NaN	Tin
7	Spain	Lush cedary black-fruit aromas are luxe and of...	Carodorum Único Crianza	95	110.0	Northern Spain	Toro	NaN	Tin
8	US	This re-named vineyard was formerly bottled as...	Silice	95	65.0	Oregon	Chehalem Mountains	Willamette Valley	Pinot
9	US	The producer sources from two blocks of the vi...	Gap's Crown Vineyard	95	60.0	California	Sonoma Coast	Sonoma	Pinot
10	Italy	Elegance, complexity and structure come togeth...	Ronco della Chiesa	95	80.0	Northeastern Italy	Collio	NaN	Fri

	country	description	designation	points	price	province	region_1	region_2	va
11	US	From 18-year-old vines, this supple well-balanced wine is a	Estate Vineyard Wadensvil Block	95	48.0	Oregon	Ribbon Ridge	Willamette Valley	Pinot
12	US	A standout even in this terrific lineup of 201...	Weber Vineyard	95	48.0	Oregon	Dundee Hills	Willamette Valley	Pinot
13	France	This wine is in peak condition. The tannins are	Château Montus Prestige	95	90.0	Southwest France	Madiran	NaN	Te
14	US	With its sophisticated mix of mineral, acid and	Grace Vineyard	95	185.0	Oregon	Dundee Hills	Willamette Valley	Pinot
15	US	First made in 2006, this succulent luscious Ch...	Sigrid	95	90.0	Oregon	Willamette Valley	Willamette Valley	Chardo
16	US	This blockbuster, powerhouse of a wine suggests	Rainin Vineyard	95	325.0	California	Diamond Mountain District	Napa	Cabi Sauvi
17	Spain	Nicely oaked blackberry, licorice, vanilla and	6 Años Reserva Premium	95	80.0	Northern Spain	Ribera del Duero	NaN	Tempra
18	France	Coming from a seven-acre vineyard named after ...	Le Pigeonnier	95	290.0	Southwest France	Cahors	NaN	Ma
19	US	This fresh and lively medium-bodied wine is be...	Gap's Crown Vineyard	95	75.0	California	Sonoma Coast	Sonoma	Pinot

```
In [10]: wine_review2.tail(20)
```

```
Out[10]:
```

	country	description	designation	points	price	province	region_1	region_2
150910	France	Scents of graham cracker and malted milk choco...	NaN	89	38.0	Burgundy	Chambolle-Musigny	NaN
150911	France	This needs a good bit of breathing time, then ...	Les Chaliots	87	37.0	Burgundy	Nuits-St.-Georges	NaN
150912	France	The nose is dominated by the attractive scents...	Les Charmes	87	65.0	Burgundy	Chambolle-Musigny	NaN
150913	France	Inky and rustic, yet in a refined manner. This...	NaN	94	30.0	Rhône Valley	Châteauneuf-du-Pape	NaN
150914	US	Old-gold in color, and thick and syrupy. The a...	Late Harvest Cluster Select	94	25.0	California	Anderson Valley	Mendocino/Lake Counties
150915	US	Decades ago, Beringer's then-winemaker Myron N...	Nightingale	93	30.0	California	North Coast	North Coast
150916	US	An impressive wine that presents a full bouque...	J. Schram	93	65.0	California	Napa Valley	Napa
150917	France	Light and elegant, this spicy, lively wine is ...	Brut Mosaïque	92	30.0	Champagne	Champagne	NaN
150918	France	Jacquart makes a full-bodied, ripe style of Ch...	Cuvée Mosaïque	92	38.0	Champagne	Champagne	NaN
150919	France	This classy example opens with a very floral n...	Cuvée President	91	37.0	Champagne	Champagne	NaN

	country	description	designation	points	price	province	region_1	region_2
150920	Italy	Rich and mature aromas of smoke, earth and her...	Brut Riserva	91	19.0	Northeastern Italy	Trento	NaN
150921	France	Shows some older notes: a bouquet of toasted w...	Blanc de Blancs Brut Mosaïque	91	38.0	Champagne	Champagne	NaN
150922	Italy	Made by 30-ish Roberta Borghese high above Man...	Superiore	91	NaN	Northeastern Italy	Colli Orientali del Friuli	NaN
150923	France	Rich and toasty, with tiny bubbles. The bouque...	Demi-Sec	91	30.0	Champagne	Champagne	NaN
150924	France	Really fine for a low-acid vintage, there's an...	Diamant Bleu	91	70.0	Champagne	Champagne	NaN
150925	Italy	Many people feel Fiano represents southern Ita...	NaN	91	20.0	Southern Italy	Fiano di Avellino	NaN
150926	France	Offers an intriguing nose with ginger, lime an...	Cuvée Prestige	91	27.0	Champagne	Champagne	NaN
150927	Italy	This classic example comes from a cru vineyard...	Terre di Dora	91	20.0	Southern Italy	Fiano di Avellino	NaN
150928	France	A perfect salmon shade, with scents of peaches...	Grand Brut Rosé	90	52.0	Champagne	Champagne	NaN
150929	Italy	More Pinot Grigios should taste like this. A r...	NaN	90	15.0	Northeastern Italy	Alto Adige	NaN

In []: