Out[2]:	Test Date County New Po  0 03/01/2020 Albany  1 03/02/2020 Albany  2 03/03/2020 Albany  3 03/04/2020 Albany  4 03/05/2020 Albany	O Cumulative Number  0 0 0 0 0 0	of Positives Total Number of T  0  0  0  0  0  0	Cumulative Number 0 0 0 0 0 0 0 0 3	0 0 0 0 0 3	
		 3 1 6 2	1101 1102 1108 1110 1110	 210 218 214 228 186	38407 38625 38839 39067 39253	
<pre>In [3]: Out[3]:</pre>	count         25668.000000           mean         77.499922           std         216.239943           min         0.000000           25%         1.000000	25668.000000 11534.093112 29594.954950 0.000000 159.000000	25668.000000 1913.191990 4264.492906 0.000000 132.000000	2.566800e+04 2.517956e+05 6.404424e+05 0.000000e+00 9.130750e+03		
In [4]:			377.000000 1308.250000 47155.000000	4.377900e+04 1.453280e+05 6.011397e+06		
Out[4]:	11 03/12/2020 Albany 12 03/13/2020 Albany 13 03/14/2020 Albany 14 03/15/2020 Albany 15 03/16/2020 Albany	1 2 3 6 11	of Positives Total Number of T  1  3  6  12  23	26 108 140	39 65 173 281 421	
		 3 1 6 2	 1101 1102 1108 1110 1110	 210 218 214 228 186	38407 38625 38839 39067 39253	
In [5]: Out[5]:	#Any_missing_values?  df.isnull().sum()  Test Date County New Positives Cumulative Number of Positiv Total Number of Tests Perfor Cumulative Number of Tests P	med 0				
<pre>In [23]: Out[23]: In [24]:</pre>	<pre>dtype: int64  #Standard_Deviation  df['New Positives'].std()  216.2399425267739  #Variance</pre>					
Out[24]:	<pre>df['New Positives'].var() 46759.712743982476  #Inter Quartile Range IQR1= df['Cumulative Number</pre>			tive Number of Positives']	.describe()['25%']	
In [6]:	<pre>print("Cumulative Number of    IQR2= df['Cumulative Number    print("Cumulative Number of    Cumulative Number of Positiv    Cumulative Number of Tests P     df.corr()</pre>	of Tests Performed'] Tests Performed IQR:  ves IQR: 5196.0 Performed IQR: 136197	.describe()['75%']- df[' ", IQR2)		<pre>Performed'].describe()['25%']</pre>	
Out[6]:	New Positive Cumulative Number of Positive Total Number of Tests Performe Cumulative Number of Tests Performe	es 1.000000 es 0.754922 ed 0.776774	0.754922 1.000000 0.874101 0.941141	0.776774 0.874101 1.000000 0.918066	0.727878 0.941141 0.918066 1.000000	
<pre>In [7]: Out[7]:</pre>	Cumulative Number of Positiv Total Number of Tests Perfor Cumulative Number of Tests P dtype: float64	96.03 Ves 14261.40 Timed 2345.71 Performed 309944.03	5378 2320 4614			
In [8]: Out[8]: In [14]: Out[14]:		Positives']).mean()		nulative Number of Tests Performed	I	
	Albany 0  1 2 3	0.000000 1027.500000 2073.222222 1955.333333 2195.900000	2.545455 397.500000 573.777778 552.777778 757.700000	7.272727 20940.000000 59482.777778 47917.666667 67080.400000		
	Yates 19 21 24 25	 515.000000 522.000000 673.000000 695.500000	 202.000000 151.000000 306.000000 263.500000	20126.500000 20787.000000 22406.000000 22712.500000		
In [17]:	26 6608 rows × 3 columns  fig, ax1 = plt.subplots() fig.set_size_inches(15, 9)	649.000000	201.000000	22100.000000		
Out[17]:	<pre>ax1.set(xlabel ='County', y ax1.set_title('No of new Co plt.xticks(rotation =-90)  (array([ 0,  1,  2,  3,  4,</pre>	label ='New Positives vid-19 positives', size 5, 6, 7, 8, 9, 1	te'), ') ze = 20)			
In [28]:	51, 52, 53, 54, 55, [Text(0, 0, 'Kings'), Text(1, 0, 'Schenectady'), Text(2, 0, 'Chemung'), Text(3, 0, 'Nassau'), Text(6, 0, 'Greene'), Text(6, 0, 'Saratoga'), Text(6, 0, 'Wayne'), Text(7, 0, 'Columbia'), Text(10, 0, 'Chautauqua'), Text(11, 0, 'Chautauqua'), Text(11, 0, 'Chautauqua'), Text(12, 0, 'Franklin'), Text(13, 0, 'Orleans'), Text(14, 0, 'Essex'), Text(15, 0, 'Chenango'), Text(16, 0, 'Cattaraugus') Text(17, 0, 'Schoharie'), Text(20, 0, 'Ulster'), Text(21, 0, 'Rockland'), Text(22, 0, 'Hamilton'), Text(24, 0, 'New York'), Text(25, 0, 'Richmond'), Text(26, 0, 'Cortland'), Text(27, 0, 'Steuben'), Text(28, 0, 'Schuyler'), Text(30, 0, 'Wyoming'), Text(31, 0, 'Allegany'), Text(31, 0, 'Allegany'), Text(32, 0, 'Herkimer'), Text(33, 0, 'Oswego'), Text(34, 0, 'Suffolk'), Text(35, 0, 'Lewis'), Text(37, 0, 'Albany'), Text(39, 0, 'Jefferson'), Text(40, 0, 'Oneida'), Text(41, 0, 'Yates'), Text(44, 0, 'Orange'), Text(44, 0, 'Orange'), Text(44, 0, 'Genesee'), Text(45, 0, 'Fulton'), Text(47, 0, 'Tioga'), Text(48, 0, 'Onondaga'), Text(49, 0, 'Clinton'), Text(50, 0, 'Marren'), Text(50, 0, 'Marren'), Text(50, 0, 'Seneca'), Text(50, 0, 'Livingston'), Text(50, 0, 'Livingston'), Text(50, 0, 'Livingston'), Text(50, 0, 'Seneca'), Text(50, 0, 'Genesee'), Text(50, 0, 'Livingston'), Text(50, 0, 'Seneca'), Text(60, 0, 'Seneca'), Text(60, 0, 'Seneca'), Text(60, 0, 'Seneca'), Text(61, 0, 'Bronx')])	New York  Amadison  Hamilton  Rockland  Uster  Verthester  Monroe  Schoharie  - Chenango  Lissex  Orleans  Orleans	Albamy Albamy Albamy Lewis Cayuga Survival Cayuga Survival Cayuga Survival Cayuga Survival Albamy Cayuga Survival Albamy	Washing Genese Whren Conse Con	Bronx  - Bronx  - Chenca  - Chenca  - Chenca  - Chenca  - Chinasa  - Chinasa	
Out[28]:	<pre>data = df.sort_values(' ax2.set(xlabel ='County', y ax2.set_title('', size = 20 plt.xticks(rotation =-90)</pre>	Test Date', ascending ) label ='Test Date') )	= 1),	L6,		
Out [28]:	34, 35, 36, 37, 38,	22, 23, 24, 25, 26, 2 39, 40, 41, 42, 43, 4 56, 57, 58, 59, 60, 6	7, 28, 29, 30, 31, 32, 3 4, 45, 46, 47, 48, 49, 5	Fultra Sall	- Bronx - Seneca - Queens - Queens - Dutches - Dutches - Livingston - Roompelins - Broompelins - Strakington	
In [32]: Out[32]:	<pre>df['New Positives'][:50].va <axessubplot:></axessubplot:></pre>	lue_counts().plot.bar		rives')		
	8 - 6 - 4 - 2 -					
	0 4 E B 9 E B 1 1 1 2 8 8 1 1 1 4 8 8 1 1 4 8 8 1 1 4 8 8 1 1 4 8 8 1 1 4 8 8 1 1 1 1	16 16 16				

import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

In [2]:

df

df = pd.read\_csv("New\_York\_State\_Statewide\_COVID-19\_Testing.csv")