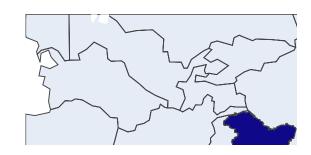
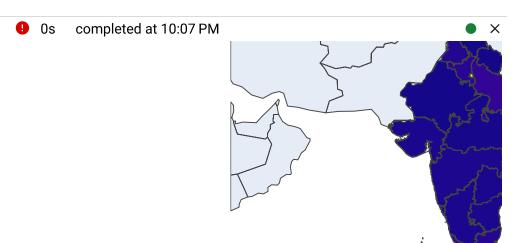
```
# 1> Display a Choropleth Map
# i> To show variation of Literacy in different Indian states
import json
import pandas as pd
import plotly.express as px
INDIA_MAP=json.load(open('/content/states_india.geojson','r'))
INDIA_DATA=pd.read_csv('India-Population1.csv')
MAP=px.choropleth(INDIA_DATA,geojson=INDIA_MAP,
locations='State',
featureidkey="properties.st_nm",
color='Literacy',scope='asia',fitbounds='locations')
MAP.show()
     FileNotFoundError
                                                Traceback (most recent call last)
     <ipython-input-7-6f613819e1ac> in <cell line: 6>()
           4 import pandas as pd
           5 import plotly.express as px
     ---> 6 INDIA_MAP=json.load(open('/content/states_india.geojson','r'))
           7 INDIA_DATA=pd.read_csv('India-Population1.csv')
           8 MAP=px.choropleth(INDIA_DATA,geojson=INDIA_MAP,
     FileNotFoundError: [Errno 2] No such file or directory: '/content
     /states_india.geojson'
     SEARCH STACK OVERELOW
# 1> Display a Choropleth Map
# i> To show variation of Density in different Indian states
import json
import pandas as pd
import plotly.express as px
INDIA_MAP=json.load(open('/content/states_india.geojson','r'))
INDIA_DATA=pd.read_csv('India-Population1.csv')
MAP=px.choropleth(INDIA_DATA,geojson=INDIA_MAP,
locations='State',
featureidkey="properties.st_nm",
color='Density',scope='asia',fitbounds='locations')
MAP.show()
```





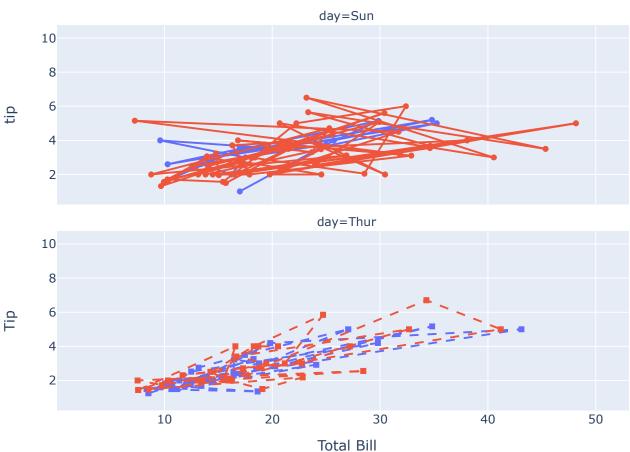
2. i> Load the above given dataset from plotly library using px.data.tips()
import plotly.express as px
DataTips = px.data.tips()
display(DataTips)

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

244 rows × 7 columns

ii> Display a LINE plot for 'tip' Vs. 'total_bill' classified according to 'sex' and 'day
a. colour of the plots should be different for different type of 'sex'
import plotly.express as px

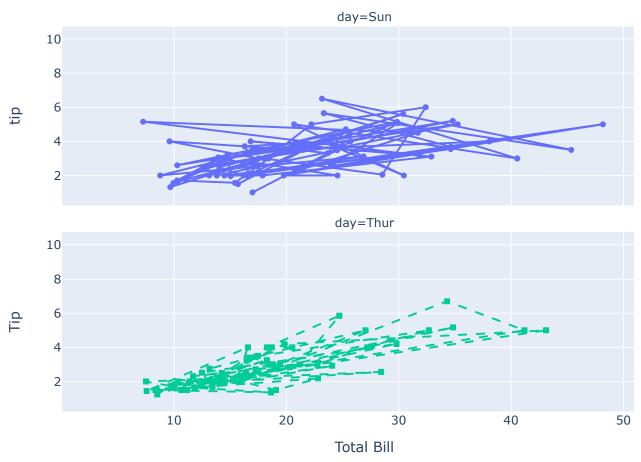
Tip vs Total Bill



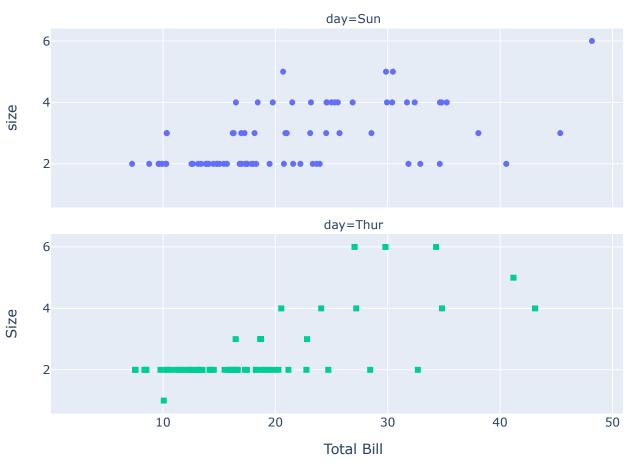
```
xaxis_title= local Bill ,
yaxis_title='Tip',
legend_title='day')
```

fig.show()

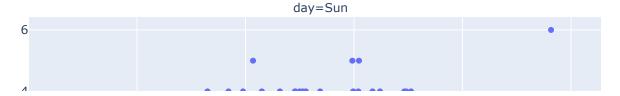
Tip vs Total Bill

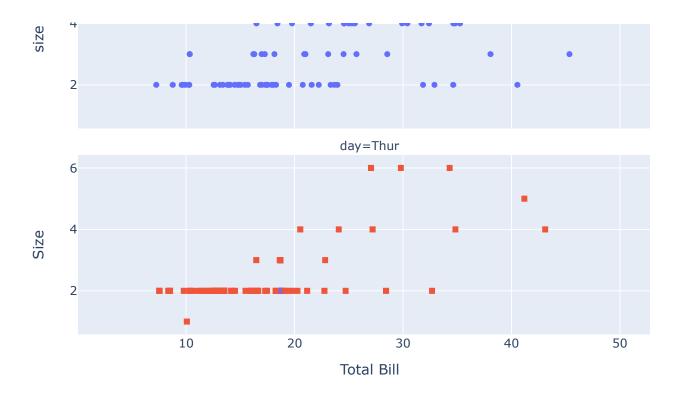


Size vs Total Bill

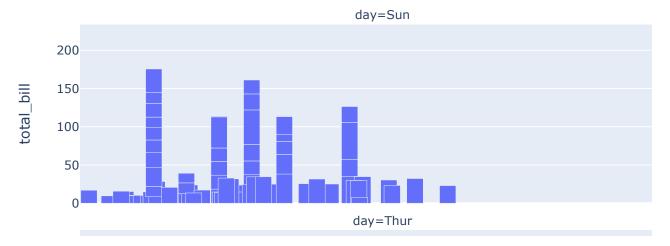


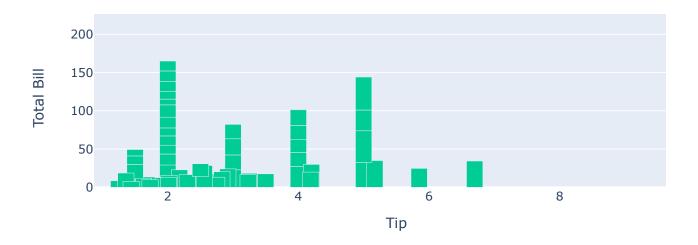
Total Bill vs Size





Tip vs Total Bill

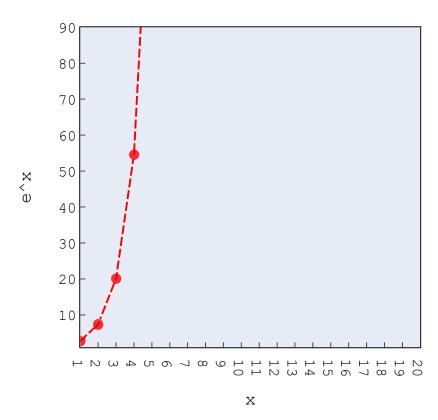




```
# Draw graph for e^x vs x
import plotly.express as px
import numpy as np
x = [m \text{ for } m \text{ in } range(1,20)]
y = [np.exp(m) \text{ for } m \text{ in } range(1,20)]
Plot1 = px.line(x=x, y=y,title='e^x Vs. X',
labels=dict(x='x',y='e^x'),
range_x=(1,20), range_y=(1,90),
height=500,width=500,markers=True)
Plot1.update_traces(textposition='top left',
marker = dict(size =10, opacity = 0.8,color='red'),
line = dict(dash = 'dashdot', width = 2,color='red'))
Plot1.update_layout(plot_bgcolor='light grey',
paper_bgcolor='pink',
xaxis_showgrid=False, yaxis_showgrid=False,
xaxis_showline=True, xaxis_linecolor='black',
yaxis_showline=True, yaxis_linecolor='black',
xaxis_mirror=True,yaxis_mirror=True,
xaxis_ticks='inside',yaxis_ticks='inside',
xaxis_tickmode='linear',xaxis_dtick=1,
yaxis_tickmode='linear',yaxis_dtick=10,
showlegend=True,
legend_title_font_color="black",
legend_title_text='e^x Vs. X',
font_family="Courier New",
font_size=15,
font_color="black",
title_font_family="Times New Roman",
title_font_color="red",
title_x=0.5)
Plot1.show()
```

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$e^x Vs. X$



Colab paid products - Cancel contracts here

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