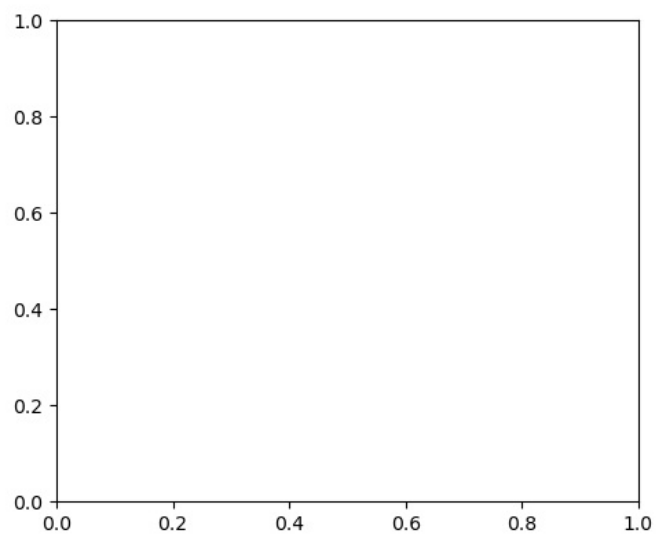
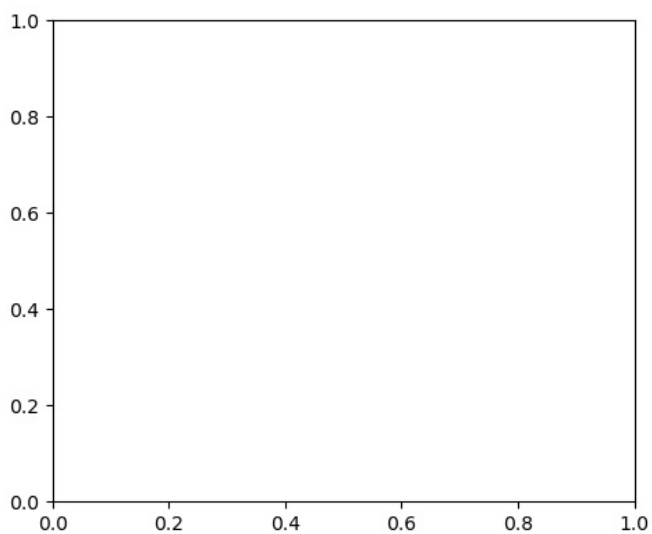
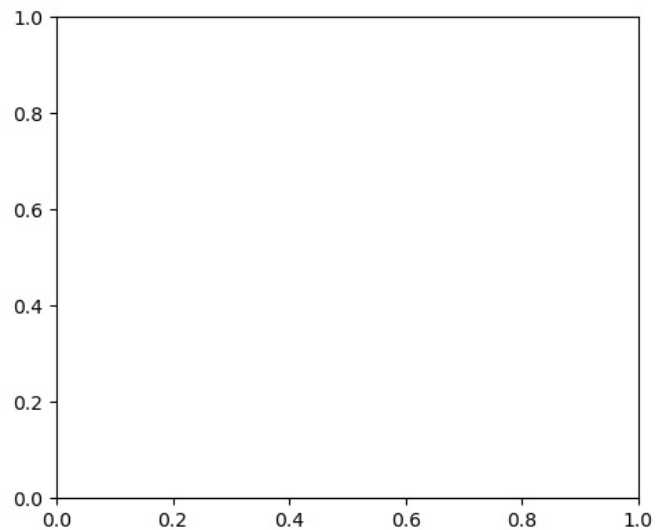
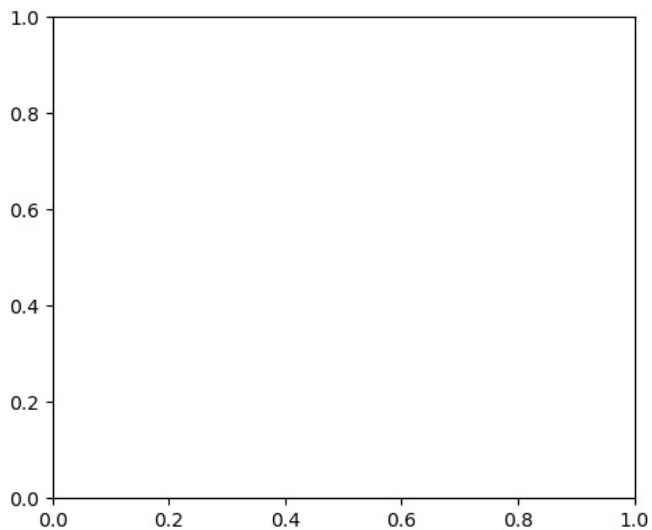


```
In [37]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
df = sns.load_dataset("tips")
fig, axes = plt.subplots(2, 2, figsize=(12, 10))
print(df.head())
print(df)
```

	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

	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 x 7 columns]

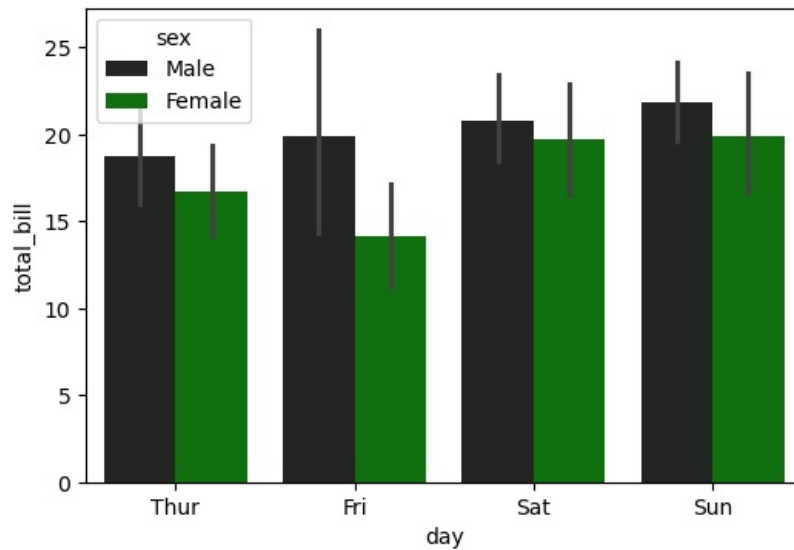


```
In [38]: plt.figure(figsize=(6,4))
sns.barplot(x="day",y="total_bill",data=df,hue="sex",color="green")
axes[0,0].set_title("Average Total Bill per Day (Bar Chart)")
plt.show()
```

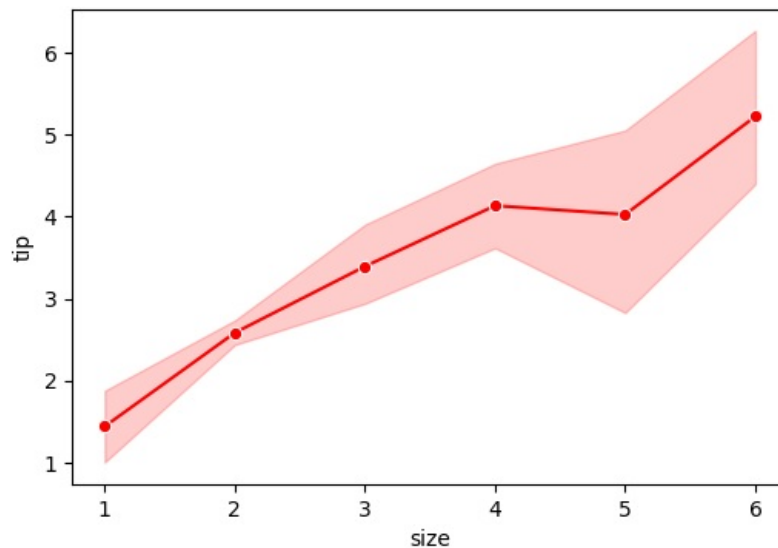
C:\Users\venna_5k5d29a\AppData\Local\Temp\ipykernel_23668\3534151345.py:2: FutureWarning:

Setting a gradient palette using color= is deprecated and will be removed in v0.14.0. Set `palette='dark:green'` for the same effect.

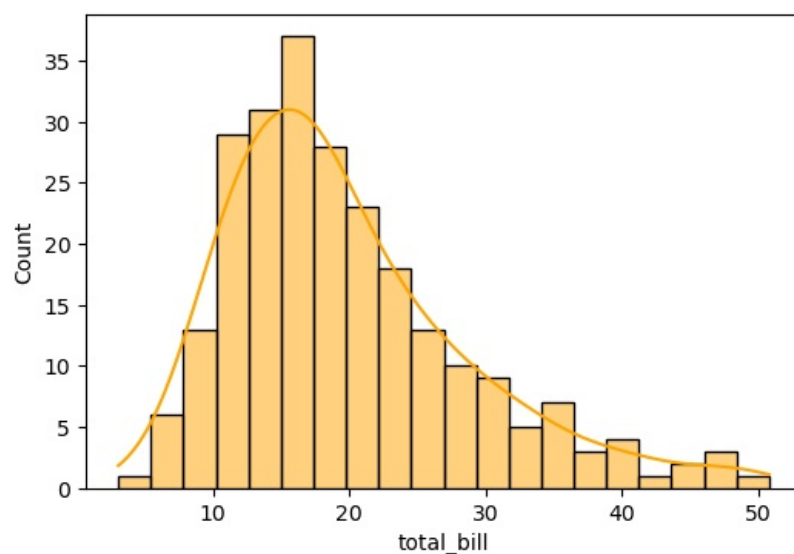
```
sns.barplot(x="day",y="total_bill",data=df,hue="sex",color="green")
```



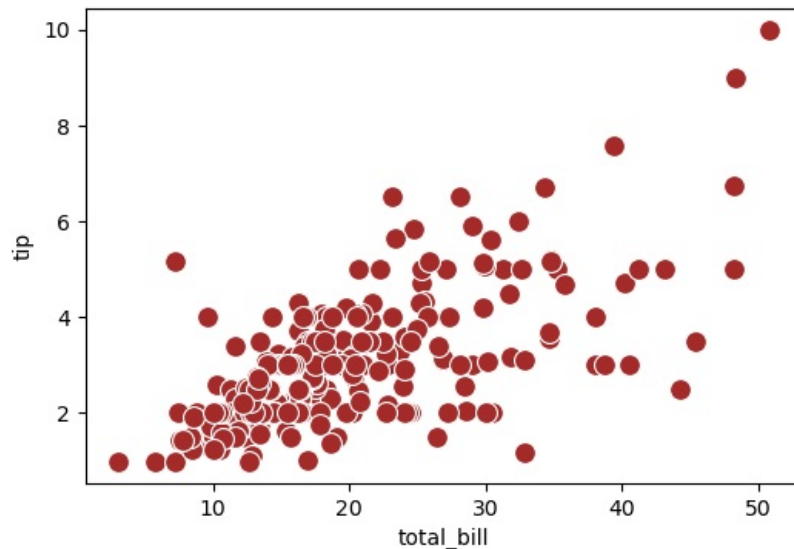
```
In [39]: plt.figure(figsize=(6,4))
sns.lineplot(x="size",y="tip",marker="o",data=df,color="red")
axes[0,1].set_title("Average total bill per day (lineplot)")
plt.show()
```



```
In [40]: plt.figure(figsize=(6,4))
sns.histplot(df["total_bill"],kde=True,bins=20,color="orange")
axes[1,0].set_title("total_bill per day (histogram)")
plt.show()
```



```
In [41]: plt.figure(figsize=(6,4))
sns.scatterplot(x="total_bill", y="tip", data=df,color="brown",s=100)
axes[0,1].set_title("total_bill vs tip (scatter plot)")
plt.show()
```



```
In [58]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
df = sns.load_dataset("tips")
fig, axes = plt.subplots(2, 2, figsize=(12, 10))
print(df.head())
print(df)
plt.figure(figsize=(6,4))
sns.barplot(x="day",y="total_bill",data=df,hue="sex",color="green",ax=axes[0,0])
axes[0,0].set_title("Average Total Bill per Day (Bar Chart)")

sns.lineplot(x="size",y="tip",marker="o",data=df,color="red",ax=axes[0,1])
axes[0,1].set_title("Average total bill per day (lineplot)")

sns.histplot(df["total_bill"],kde=True,bins=20,color="orange",ax=axes[1,0])
axes[1,0].set_title("total_bill per day (histogram)")

sns.scatterplot(x="total_bill", y="tip", data=df,color="brown",s=100,ax=axes[1,1])
axes[1,1].set_title("total_bill vs tip (scatter plot)")

plt.tight_layout()
plt.show()
```

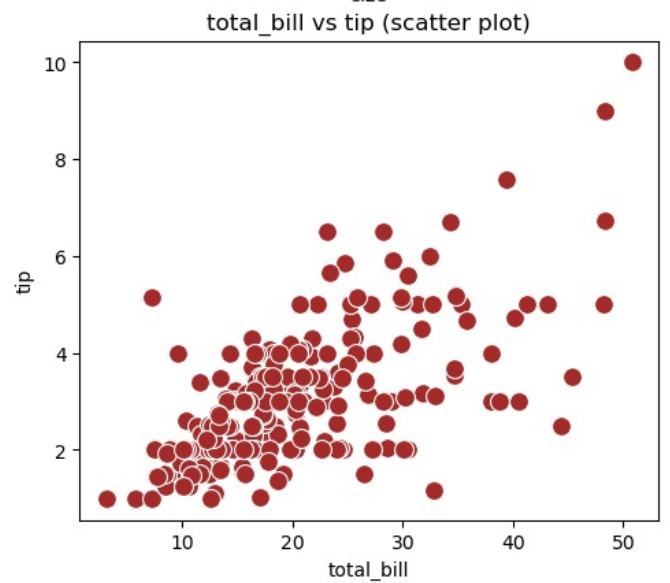
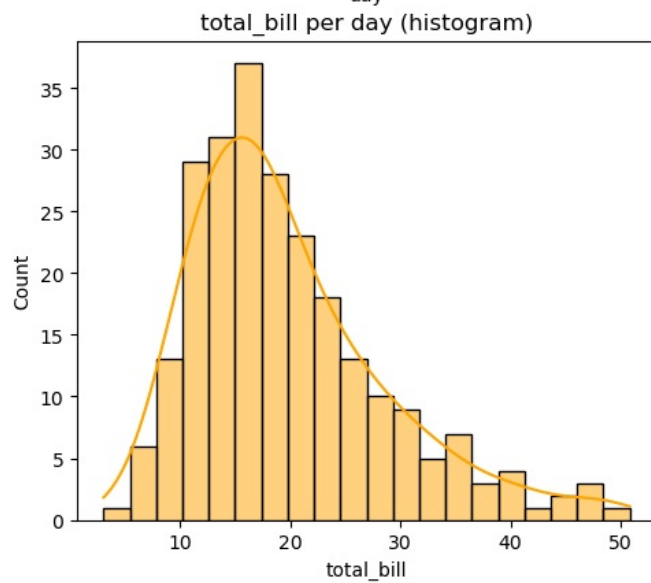
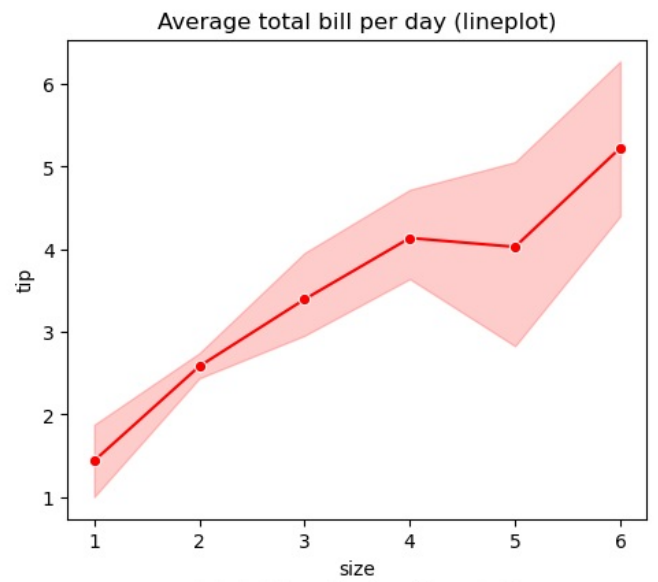
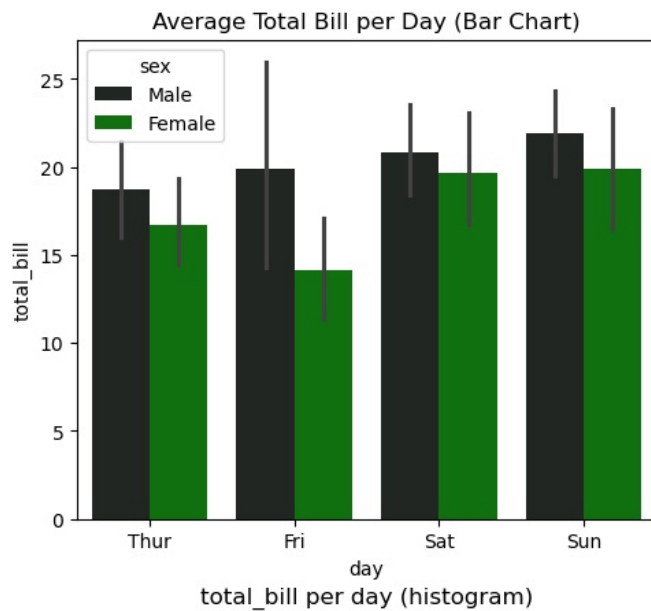
	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
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240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

[244 rows x 7 columns]

C:\Users\venna_5k5d29a\AppData\Local\Temp\ipykernel_23668\458815619.py:9: FutureWarning:

Setting a gradient palette using color= is deprecated and will be removed in v0.14.0. Set `palette='dark:green'` for the same effect.

```
sns.barplot(x="day",y="total_bill",data=df,hue="sex",color="green",ax=axes[0,0])
```



<Figure size 600x400 with 0 Axes>

In []: