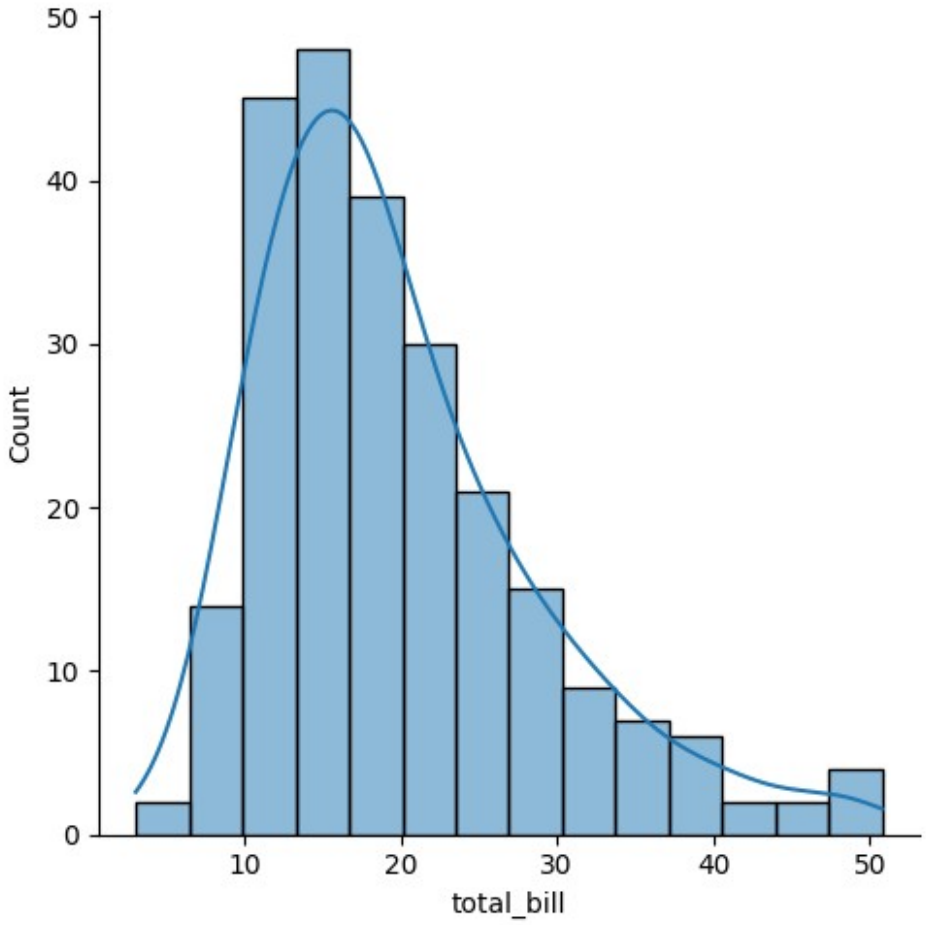
```
import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
tips=sns.load_dataset('tips')
tips.head()
```

| | 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 |

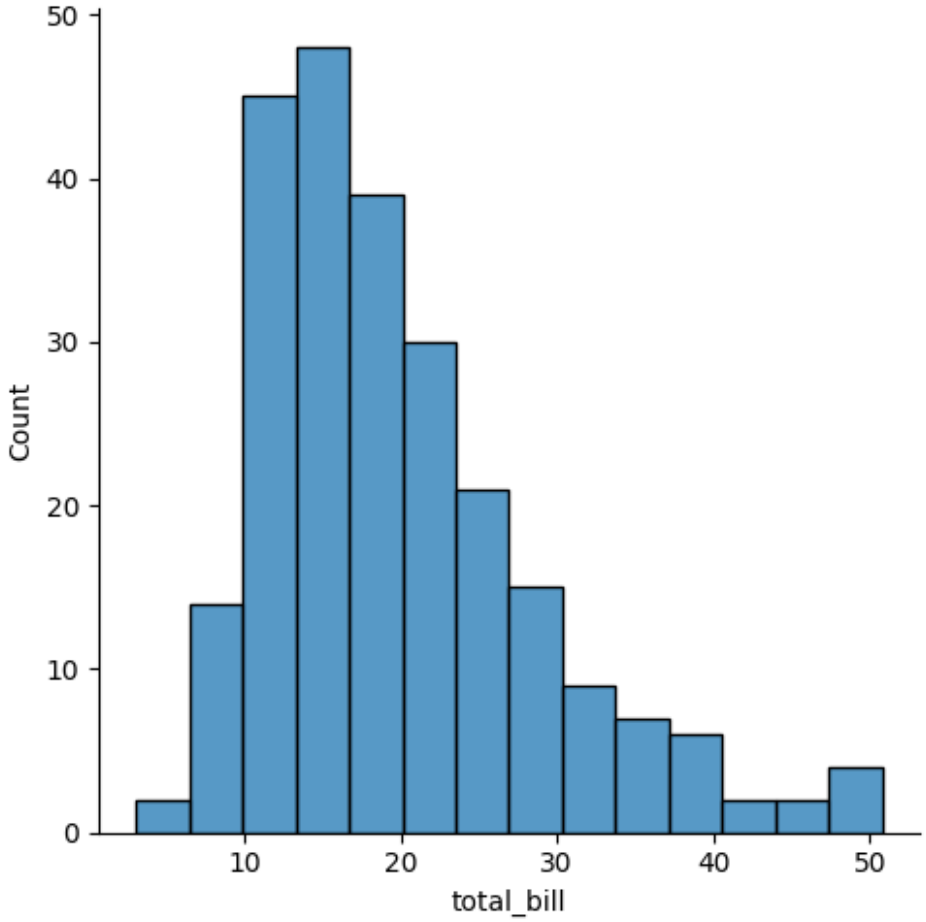
```
sns.displot(tips.total_bill,kde=True)
```

```
<seaborn.axisgrid.FacetGrid at 0x132efab8348>
```



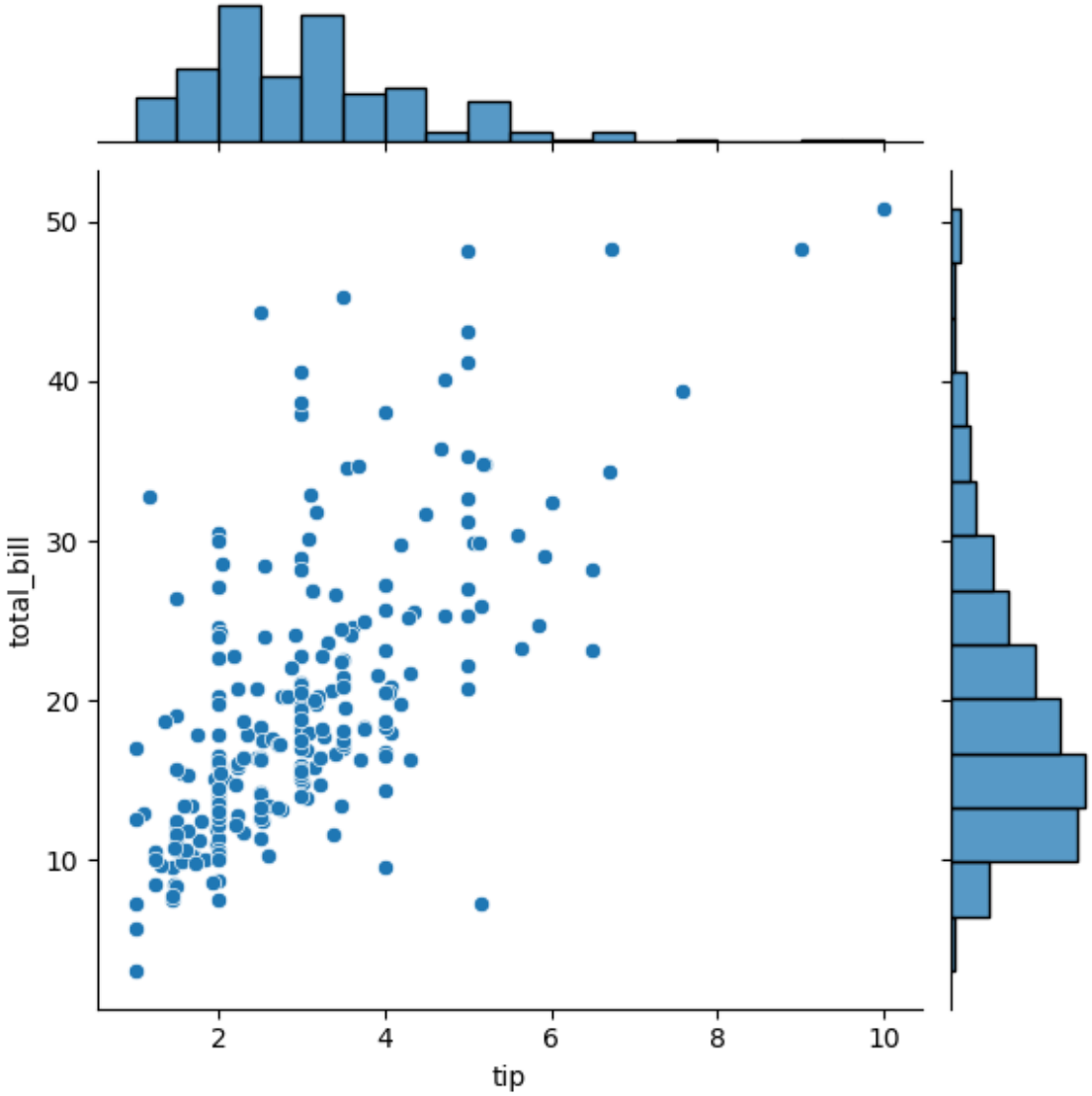

```
sns.displot(tips.total_bill,kde=False)
```

```
<seaborn.axisgrid.FacetGrid at 0x132f1e88148>
```



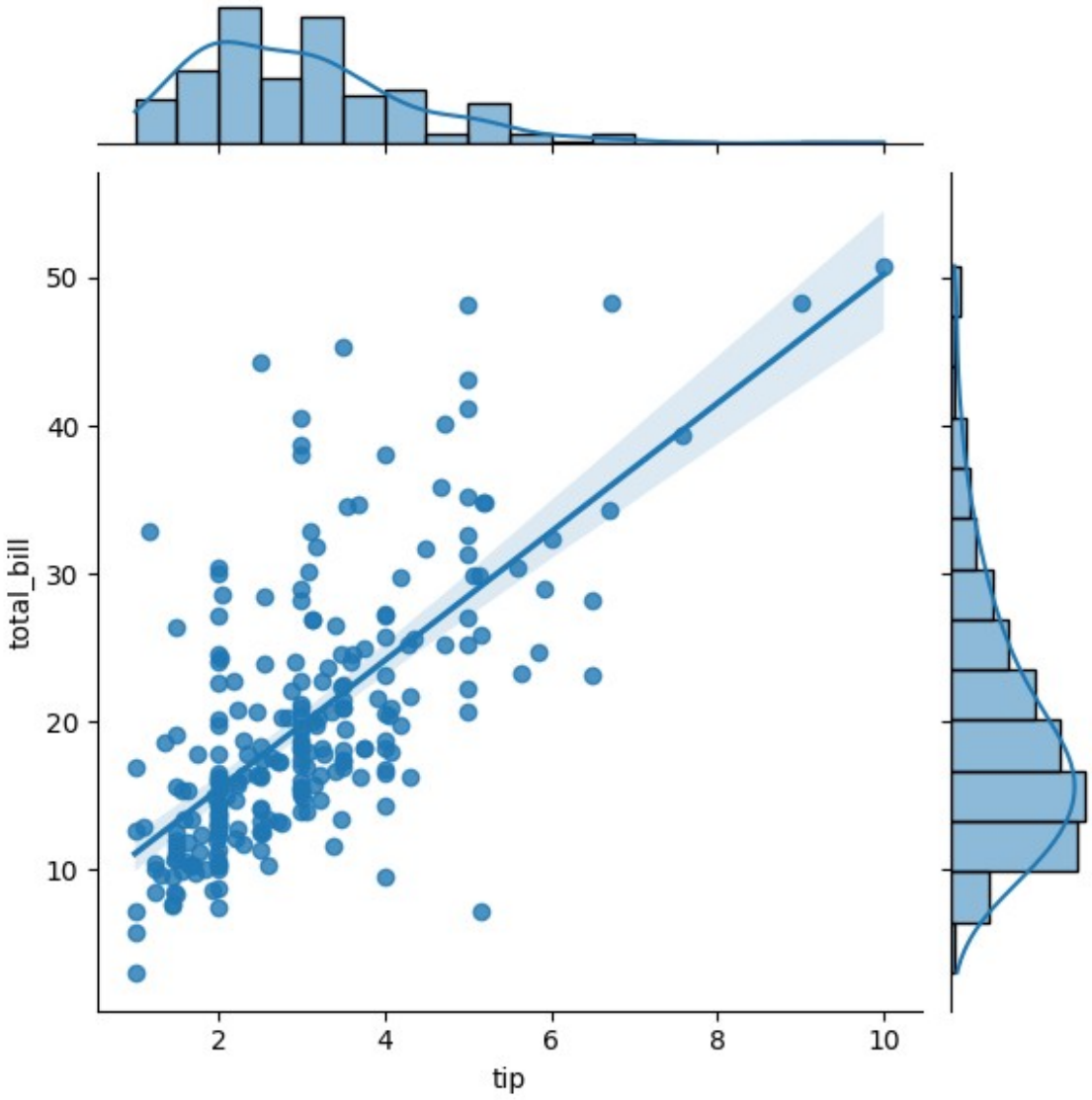

```
sns.jointplot(x=tips.tip,y=tips.total_bill)
```

```
<seaborn.axisgrid.JointGrid at 0x132f1f636c8>
```



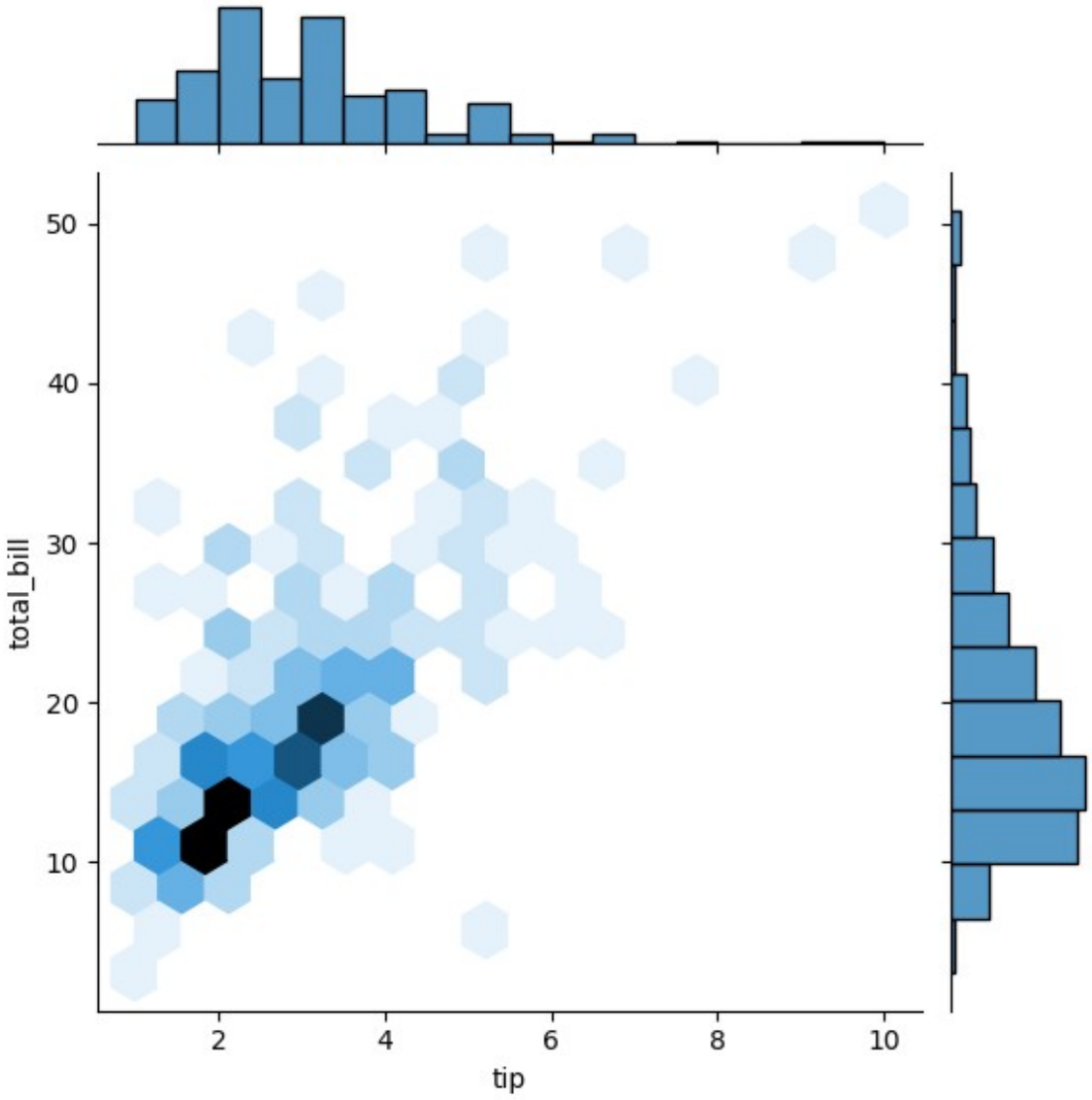

```
sns.jointplot(x=tips.tip,y=tips.total_bill,kind="reg")
```

```
<seaborn.axisgrid.JointGrid at 0x132f2224e88>
```



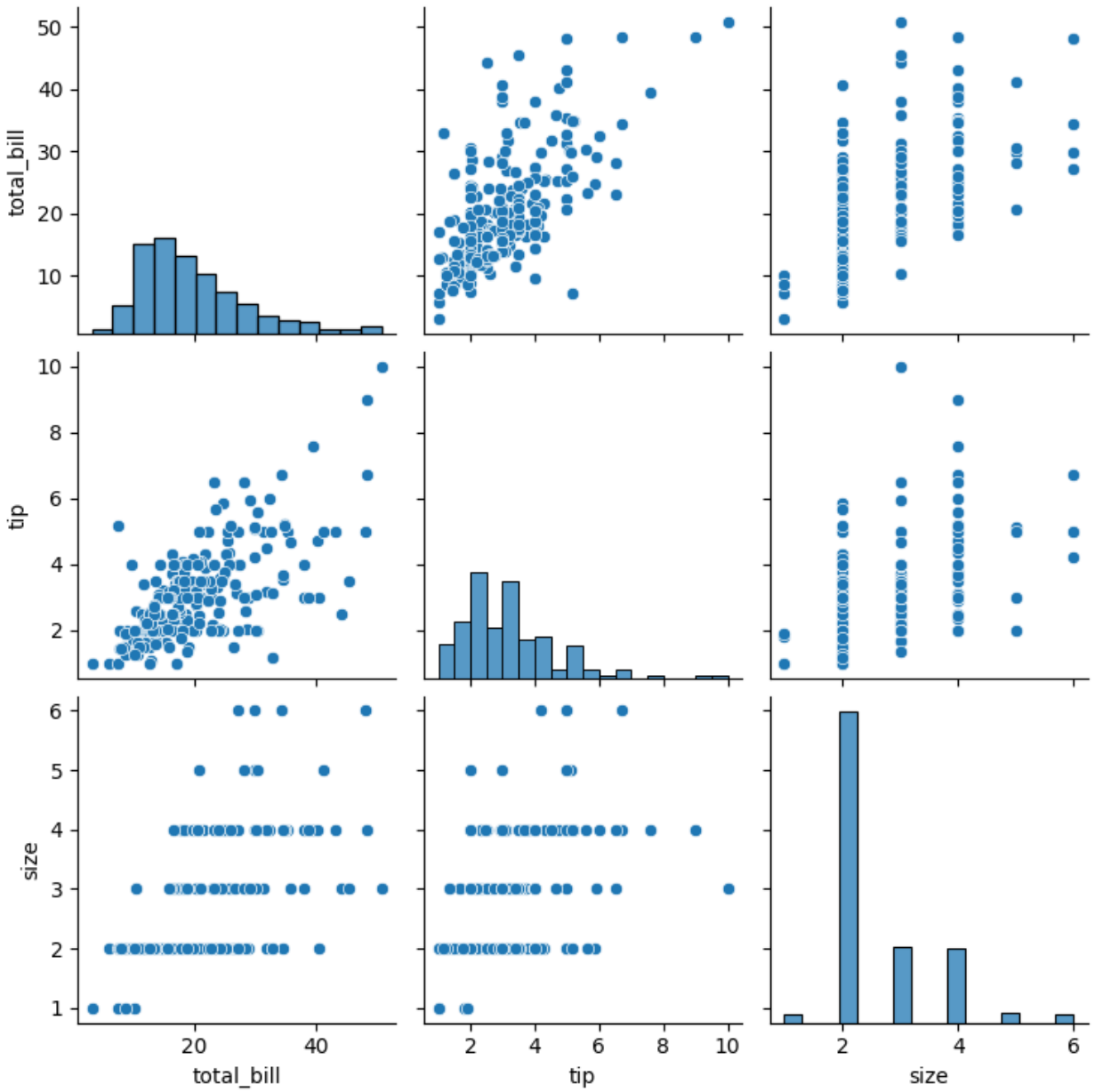

```
sns.jointplot(x=tips.tip,y=tips.total_bill,kind="hex")
```

```
<seaborn.axisgrid.JointGrid at 0x132f26f5d08>
```




```
sns.pairplot(tips)
```

```
<seaborn.axisgrid.PairGrid at 0x132f26f7708>
```

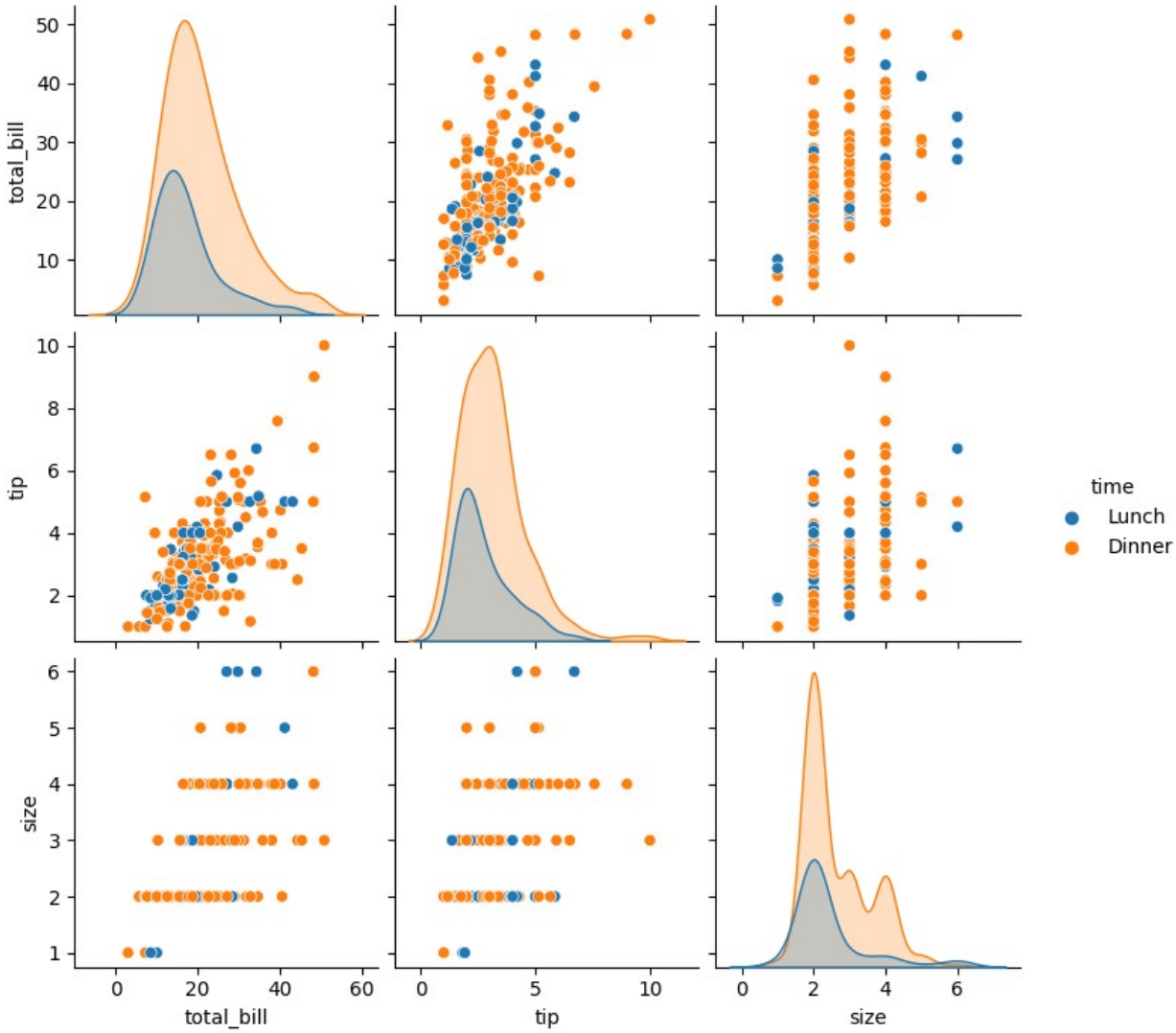



```
tips.time.value_counts()
```

```
Dinner    176
Lunch      68
Name: time, dtype: int64
```

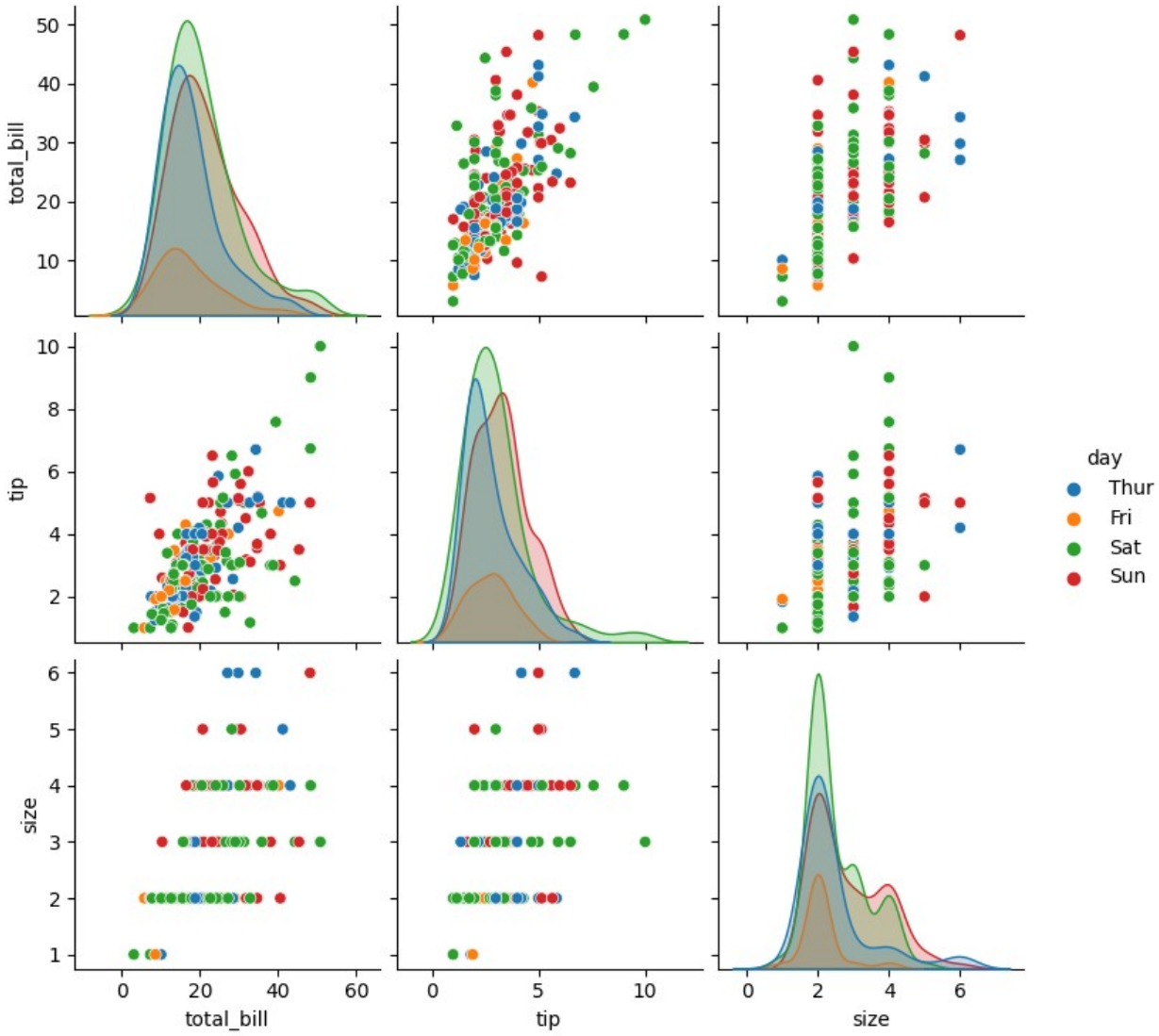
```
sns.pairplot(tips,hue='time')
```

```
<seaborn.axisgrid.PairGrid at 0x132f3420d88>
```



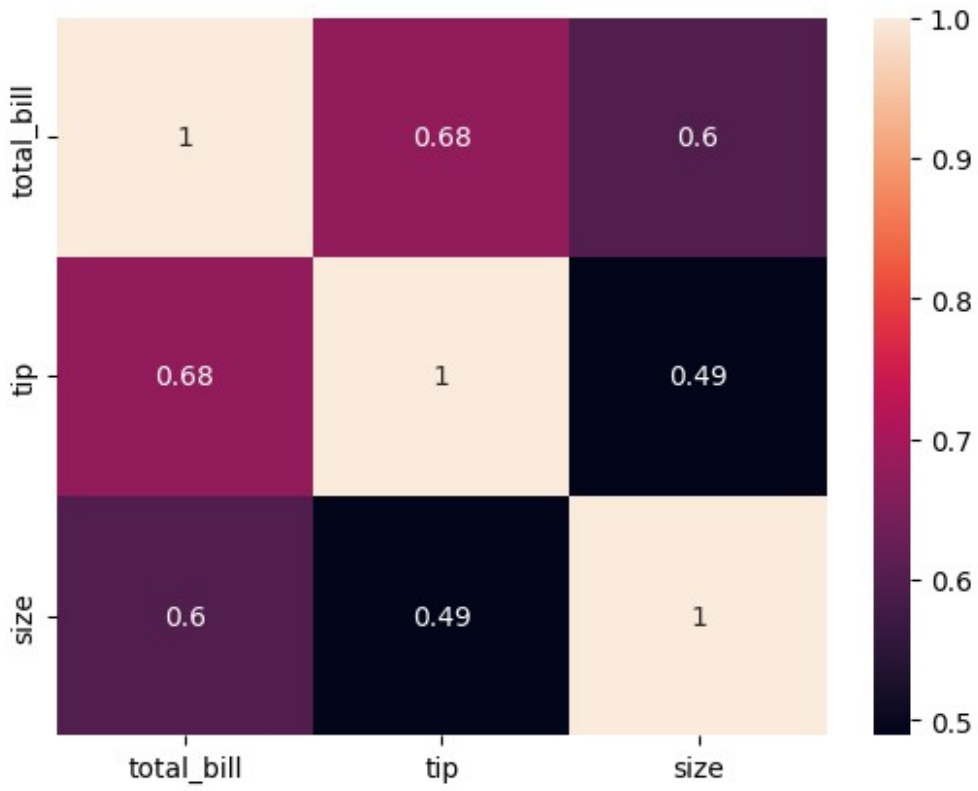

```
sns.pairplot(tips,hue='day')
```

```
<seaborn.axisgrid.PairGrid at 0x132f4c14088>
```



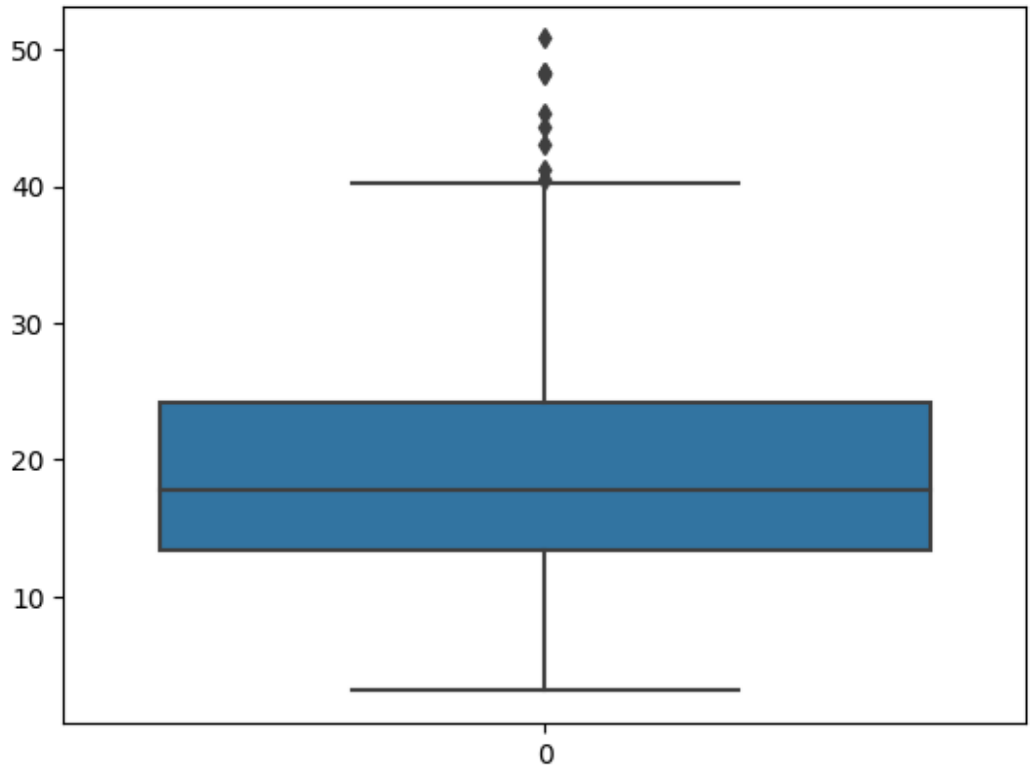

```
sns.heatmap(tips.select_dtypes(include=['number']).corr(), annot=True)
```

```
<AxesSubplot:>
```



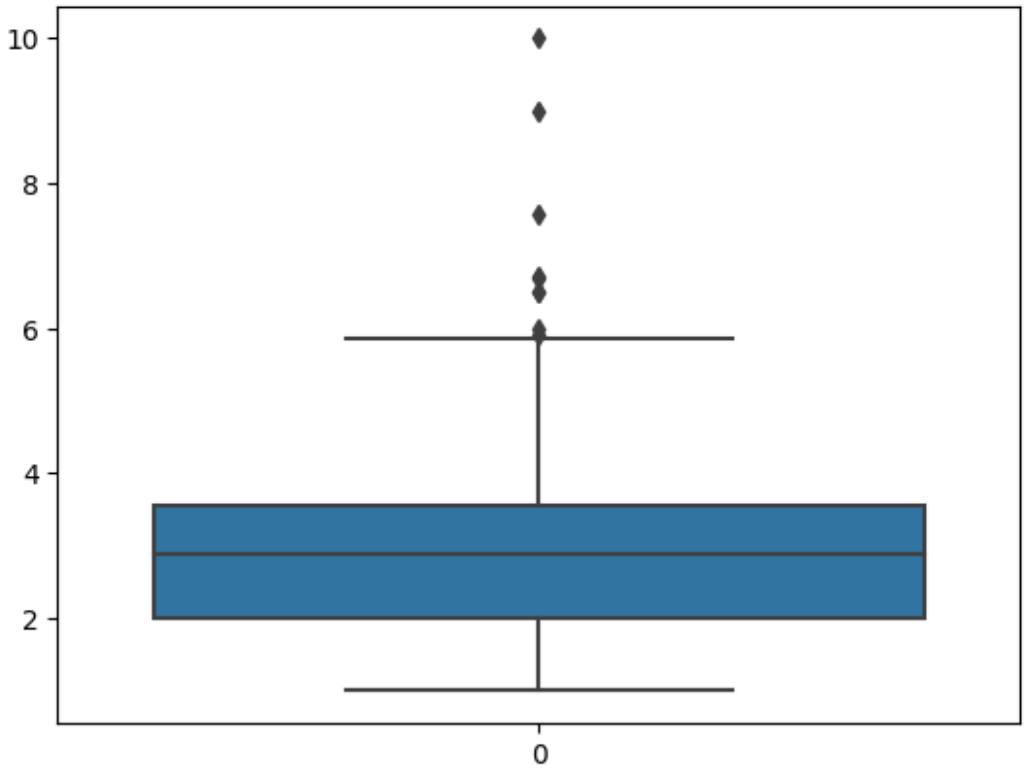

```
sns.boxplot(tips.total_bill)
```

```
<AxesSubplot:>
```



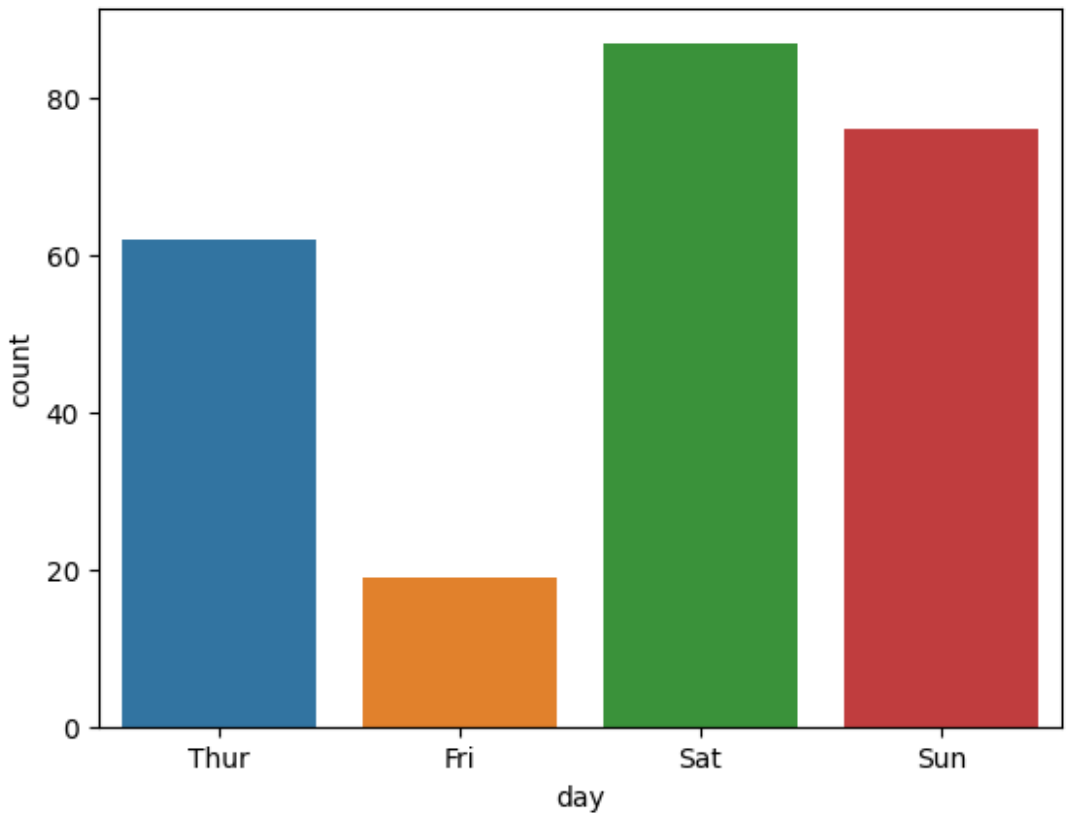

```
sns.boxplot(tips.tip)
```

```
<AxesSubplot:>
```



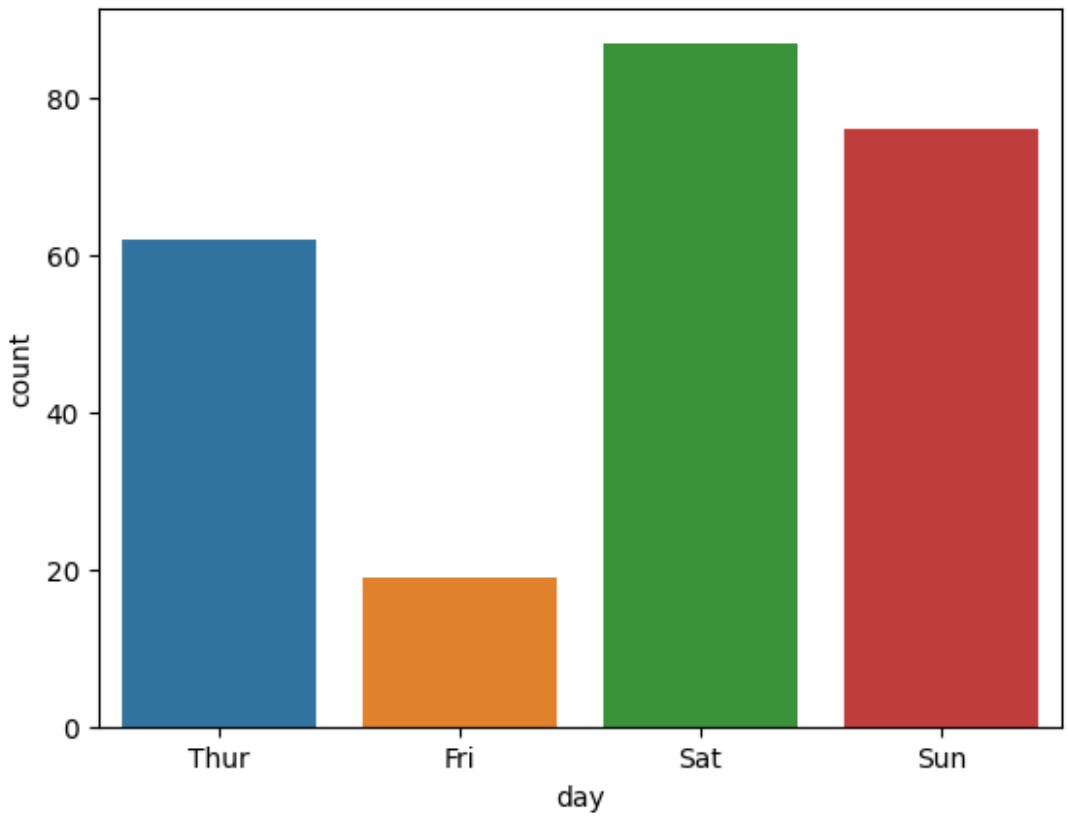

```
sns.countplot(x='day', data=tips)
```

```
<AxesSubplot:xlabel='day', ylabel='count'>
```



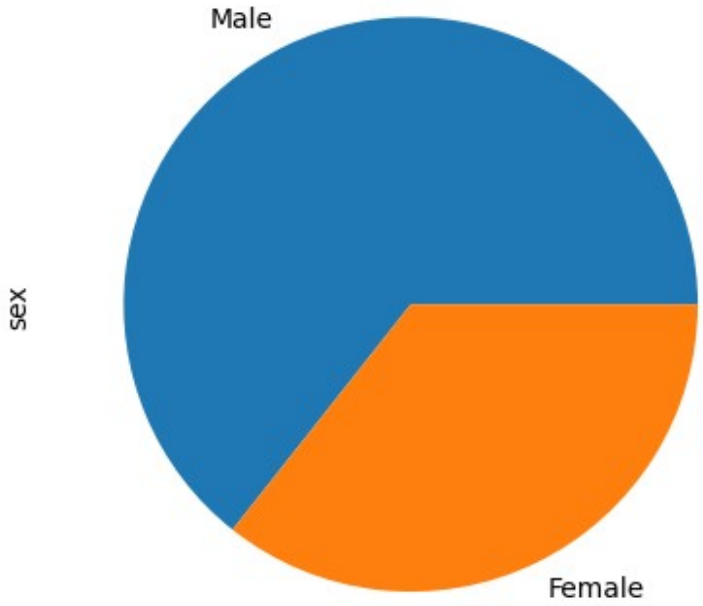

```
sns.countplot(x='day', data=tips)
```

```
<AxesSubplot:xlabel='day', ylabel='count'>
```



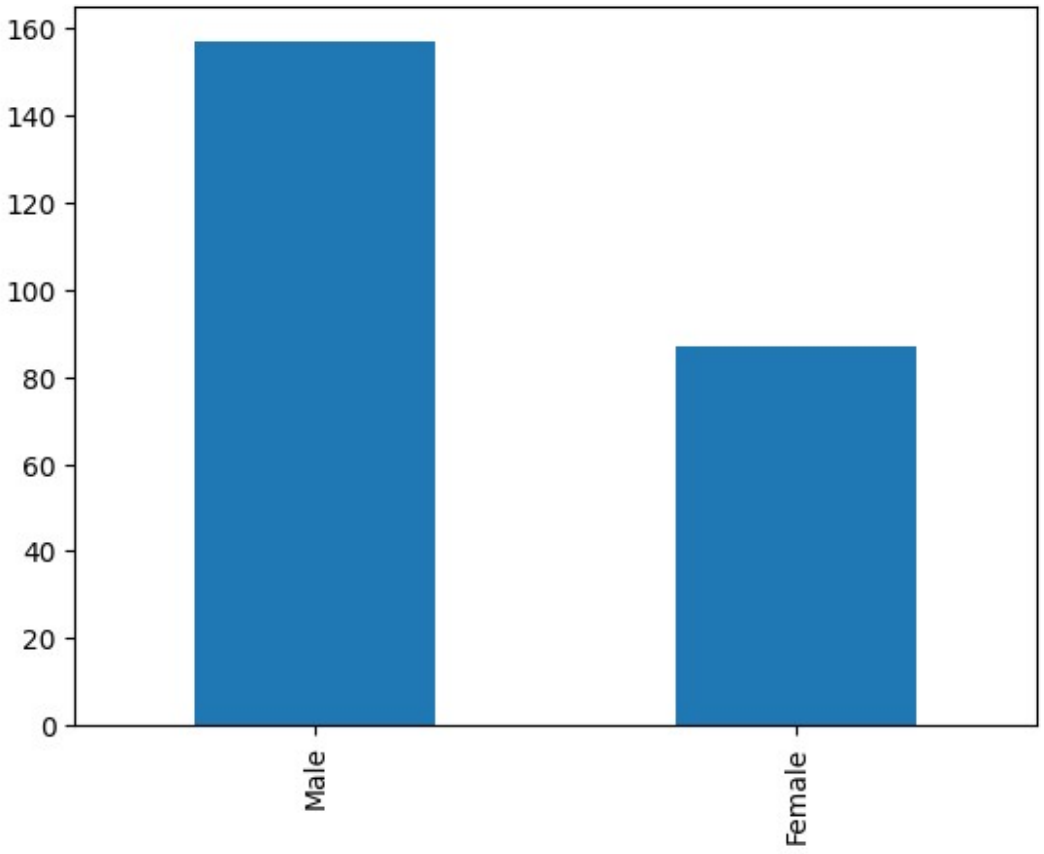

```
tips.sex.value_counts().plot(kind='pie')
```

```
<AxesSubplot:ylabel='sex'>
```



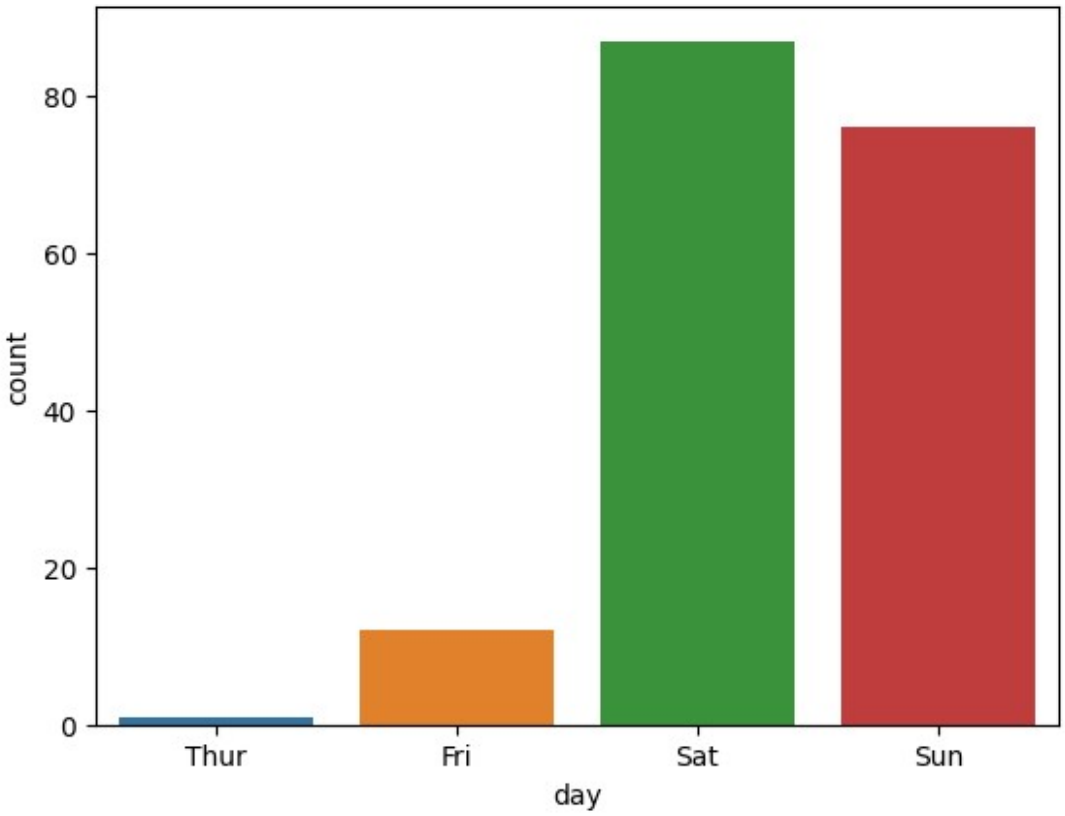

```
tips.sex.value_counts().plot(kind='bar')
```

```
<AxesSubplot:>
```




```
sns.countplot(x='day', data=tips[tips['time'] == 'Dinner'])
```

```
<AxesSubplot:xlabel='day', ylabel='count'>
```


80
60
40
20
0
count
Thur
Fri
Sat
Sun
day