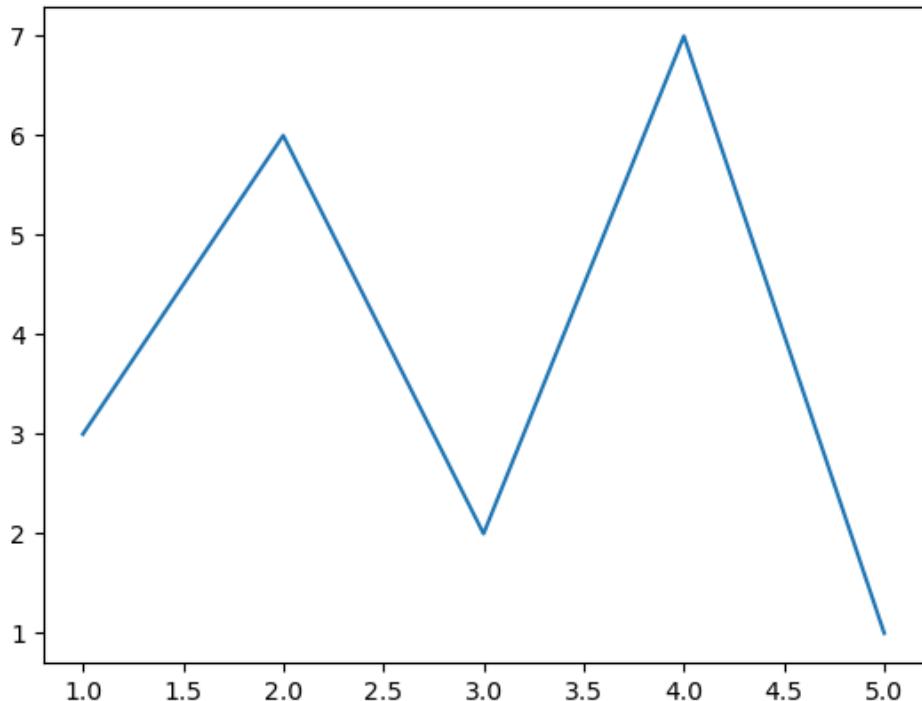


In [1]:

```
1 import seaborn as sns
2 import matplotlib.pyplot as plt
3 x = [1, 2, 3, 4, 5]
4 y = [3, 6, 2, 7, 1]
5 sns.lineplot(x=x, y=y)
```

Out[1]: <Axes: >



In [3]:

```
1 df = sns.load_dataset("tips")
2 df
```

Out[3]:

	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

```
In [4]: 1 sns.lineplot(x="total_bill",y="tip",data=df,hue="sex",linestyle="solid",legend="auto"
2
```

```

-----
ValueError                                                 Traceback (most recent call last)
Cell In[4], line 1
----> 1 sns.lineplot(x="total_bill",y="tips",data=df,hue="sex",linestyle="solid",legend="auto")

File C:\ProgramData\anaconda3\lib\site-packages\seaborn\relational.py:618, in lineplot(data, x, y, hue, size, style, units, palette, hue_order, hue_norm, sizes, size_order, size_norm, dashes, markers, style_order, estimator, errorbar, n_boot, seed, orient, sort, err_style, err_kws, legend, ci, ax, **kwargs)
    615     errorbar = _deprecate_ci(errorbar, ci)
    617     variables = _LinePlotter.get_semantics(locals())
--> 618     p = _LinePlotter(
    619         data=data, variables=variables,
    620         estimator=estimator, n_boot=n_boot, seed=seed, errorbar=errorbar,
    621         sort=sort, orient=orient, err_style=err_style, err_kws=err_kws,
    622         legend=legend,
    623     )
    625     p.map_hue(palette=palette, order=hue_order, norm=hue_norm)
    626     p.map_size(sizes=sizes, order=size_order, norm=size_norm)

File C:\ProgramData\anaconda3\lib\site-packages\seaborn\relational.py:365, in _LinePlotter.__init__(self, data, variables, estimator, n_boot, seed, errorbar, sort, orient, err_style, err_kws, legend)
    351     def __init__(
    352         self, *,
    353         data=None, variables={}, ...
    359             # the kind of plot to draw, but for the time being we need to set
    360             # this information so the SizeMapping can use it
    361             self._default_size_range = (
    362                 np.r_[.5, 2] * mpl.rcParams["lines.linewidth"]
    363             )
--> 365     super().__init__(data=data, variables=variables)
    367     self.estimator = estimator
    368     self.errorbar = errorbar

File C:\ProgramData\anaconda3\lib\site-packages\seaborn\_oldcore.py:640, in VectorPlotter.__init__(self, data, variables)
    635     # var_ordered is relevant only for categorical axis variables, and may
    636     # be better handled by an internal axis information object that tracks
    637     # such information and is set up by the scale_* methods. The analogous
    638     # information for numeric axes would be information about log scales.
    639     self._var_ordered = {"x": False, "y": False} # alt., used DefaultDict
--> 640     self.assign_variables(data, variables)
    642     for var, cls in self._semantic_mappings.items():
    643
    644         # Create the mapping function
    645         map_func = partial(cls.map, plotter=self)

File C:\ProgramData\anaconda3\lib\site-packages\seaborn\_oldcore.py:701, in VectorPlotter.assign_variables(self, data, variables)
    699     else:
    700         self.input_format = "long"
--> 701     plot_data, variables = self._assign_variables_longform(
    702         data, **variables,
    703     )
    705     self.plot_data = plot_data
    706     self.variables = variables

File C:\ProgramData\anaconda3\lib\site-packages\seaborn\_oldcore.py:938, in VectorPlotter._assign_variables_longform(self, data, **kwargs)
    933     elif isinstance(val, (str, bytes)):
    934
    935         # This looks like a column name but we don't know what it means!
    937         err = f"Could not interpret value '{val}' for parameter '{key}'"
--> 938         raise ValueError(err)
    940     else:
    941

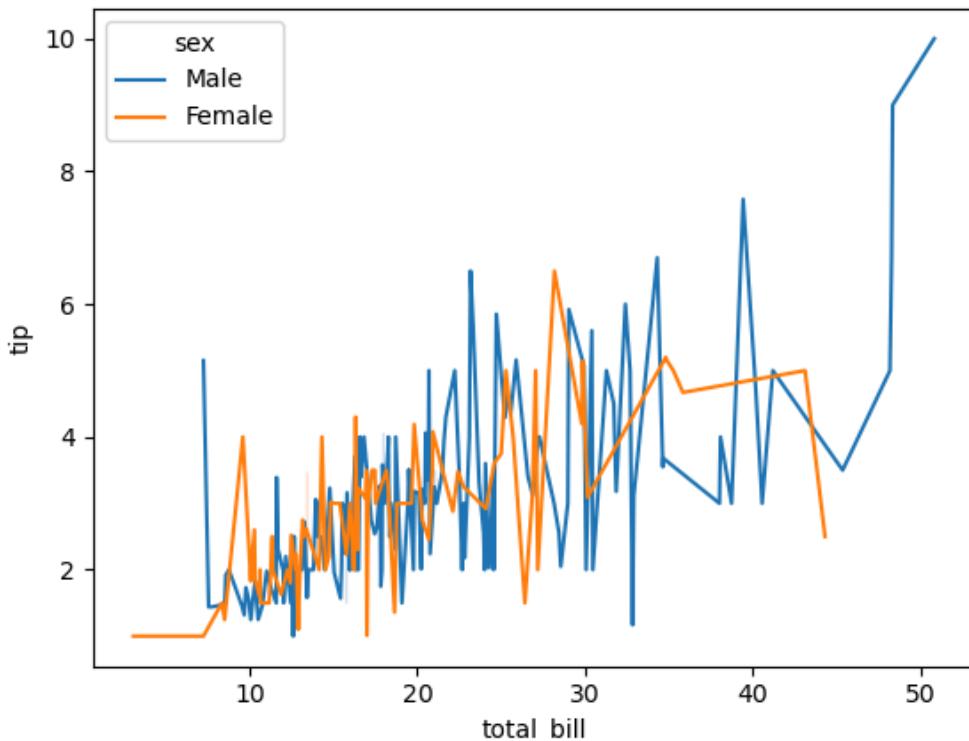
```

```
942     # Otherwise, assume the value is itself data
943
944     # Raise when data object is present and a vector can't matched
945     if isinstance(data, pd.DataFrame) and not isinstance(val, pd.Series):
```

ValueError: Could not interpret value `tips` for parameter `y`

In [5]: 1 sns.lineplot(x="total_bill",y="tip",data=df,hue="sex",linestyle="solid",legend="auto")

Out[5]: <Axes: xlabel='total_bill', ylabel='tip'>



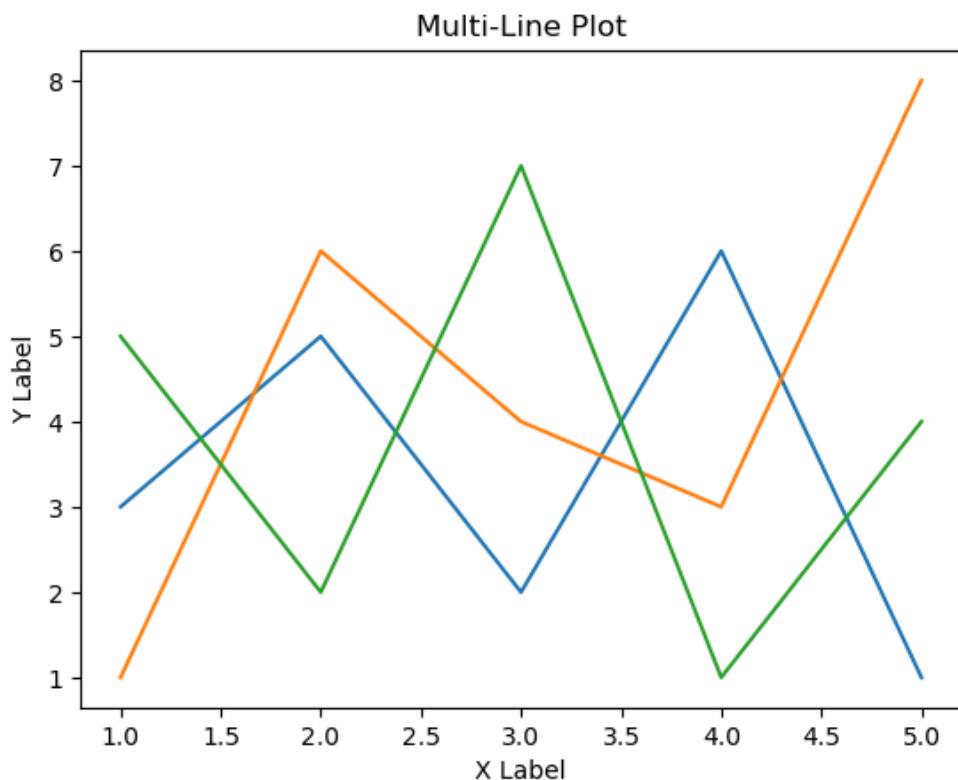
```
In [7]: 1 x = [1, 2, 3, 4, 5]
2 y1 = [3, 5, 2, 6, 1]
3 y2 = [1, 6, 4, 3, 8]
4 y3 = [5, 2, 7, 1, 4]
5 sns.lineplot(x=x, y=y1)
6 sns.lineplot(x=x, y=y2)
7 sns.lineplot(x=x, y=y3)
8 plt.title('Multi-Line Plot')
9 plt.xlabel('X Label')
10 plt.ylabel('Y Label')
11 text(0, 0.5, 'Y Label')
```

NameError

Cell In[7], line 11
9 plt.xlabel('X Label')
10 plt.ylabel('Y Label')
---> 11 text(0, 0.5, 'Y Label')

Traceback (most recent call last)

NameError: name 'text' is not defined



```
In [8]: 1 import seaborn as sns
2 import matplotlib.pyplot as plt
3 tips = sns.load_dataset('tips')
4 avg_total_bill = tips.groupby("day")['total_bill'].mean()
5 avg_tip = tips.groupby("day")['tip'].mean()
6 plt.figure(figsize=(8, 6))
7 p1 = plt.bar(avg_total_bill.index, avg_total_bill, label='Total Bill')
8 p2 = plt.bar(avg_tip.index, avg_tip, bottom=avg_total_bill, label='Tip')
9 plt.xlabel('Day of the Week') plt.ylabel('Amount')
10 plt.title('Average Total Bill and Tip by Day')
11 plt.legend()
```

Cell In[8], line 4

avg_total_bill = tips.groupby("day")['total_bill'].mean()
^

SyntaxError: unterminated string literal (detected at line 4)

```
In [9]: 1 (matplotlib.legend.Legend at ex7eesf6fc6788>
```

Cell In[9], line 1

(matplotlib.legend.Legend at ex7eesf6fc6788>
^

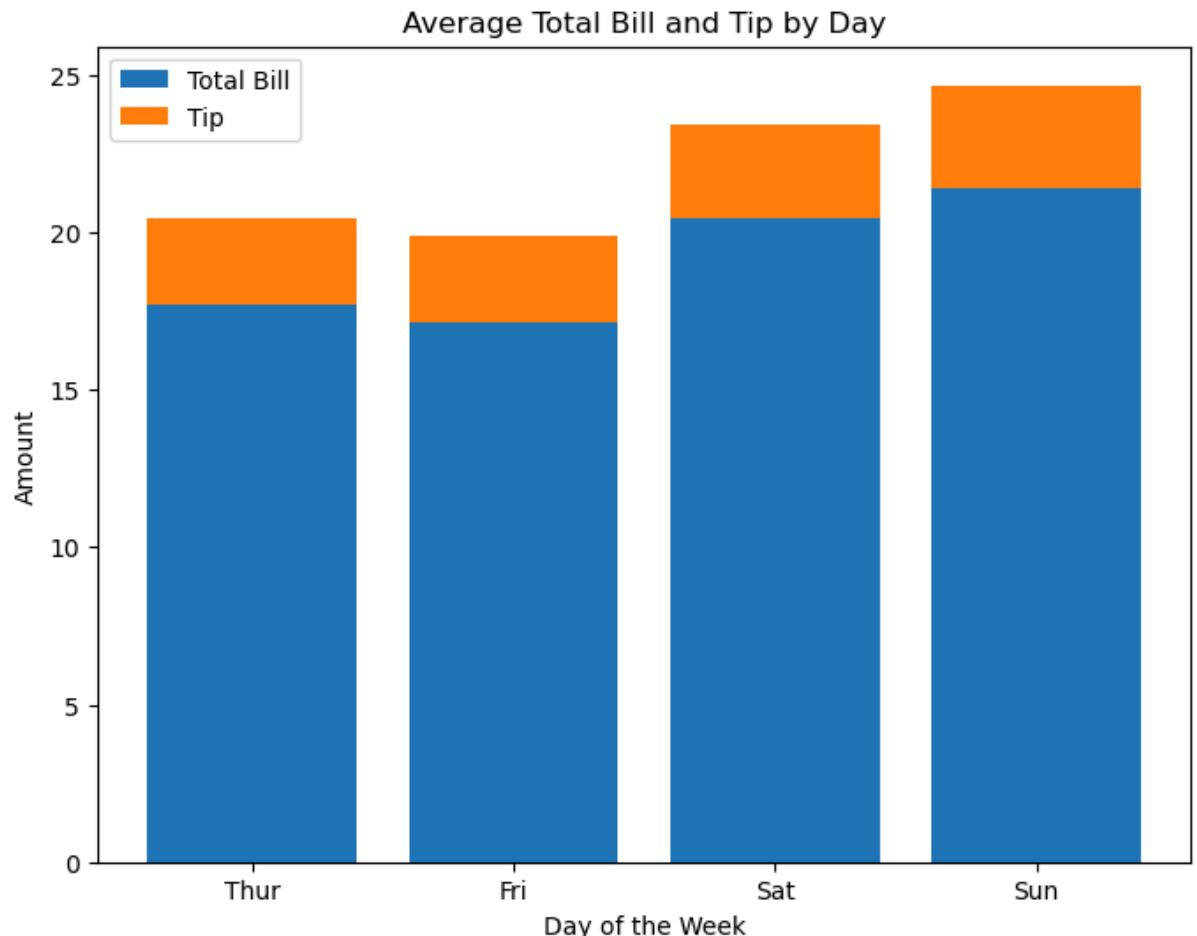
SyntaxError: invalid syntax. Perhaps you forgot a comma?

```
In [ ]: 1
```

In [17]:

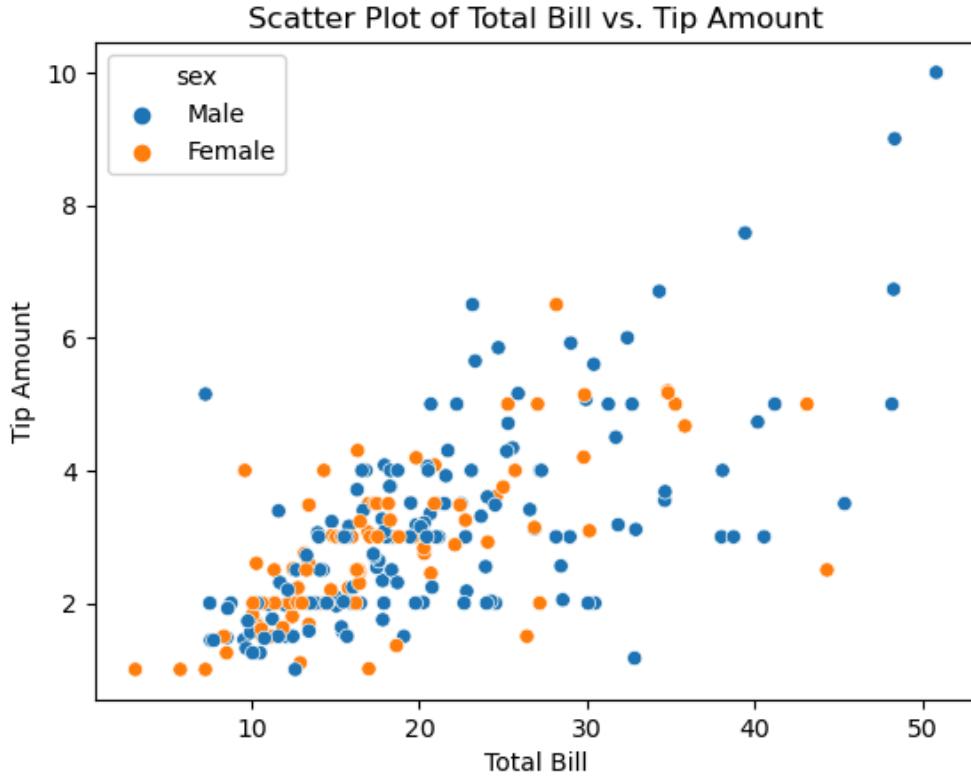
```
1 import seaborn as sns
2 import matplotlib.pyplot as plt
3 tips = sns.load_dataset ('tips')
4 avg_total_bill = tips.groupby('day')['total_bill'].mean()
5 avg_tip = tips.groupby('day')[ 'tip']. mean()
6 plt. figure(figsize=(8, 6))
7 p1 = plt.bar(avg_total_bill.index, avg_total_bill, label='Total Bill')
8 p2 = plt.bar(avg_tip.index, avg_tip, bottom=avg_total_bill, label= 'Tip')
9 plt.xlabel('Day of the Week')
10 plt.ylabel('Amount')
11 plt.title('Average Total Bill and Tip by Day')
12 plt.legend()
```

Out[17]: <matplotlib.legend.Legend at 0x1f0b4f14dc0>



```
In [20]: 1 import seaborn as sns
2 # Load the tips dataset
3 tips = sns.load_dataset('tips')
4 sns.scatterplot(x='total_bill', y='tip', hue='sex', data=tips)
5 plt.xlabel('Total Bill')
6 plt.ylabel('Tip Amount')
7 plt.title('Scatter Plot of Total Bill vs. Tip Amount')
```

Out[20]: Text(0.5, 1.0, 'Scatter Plot of Total Bill vs.\xa0Tip\x07Amount')



In []:

1