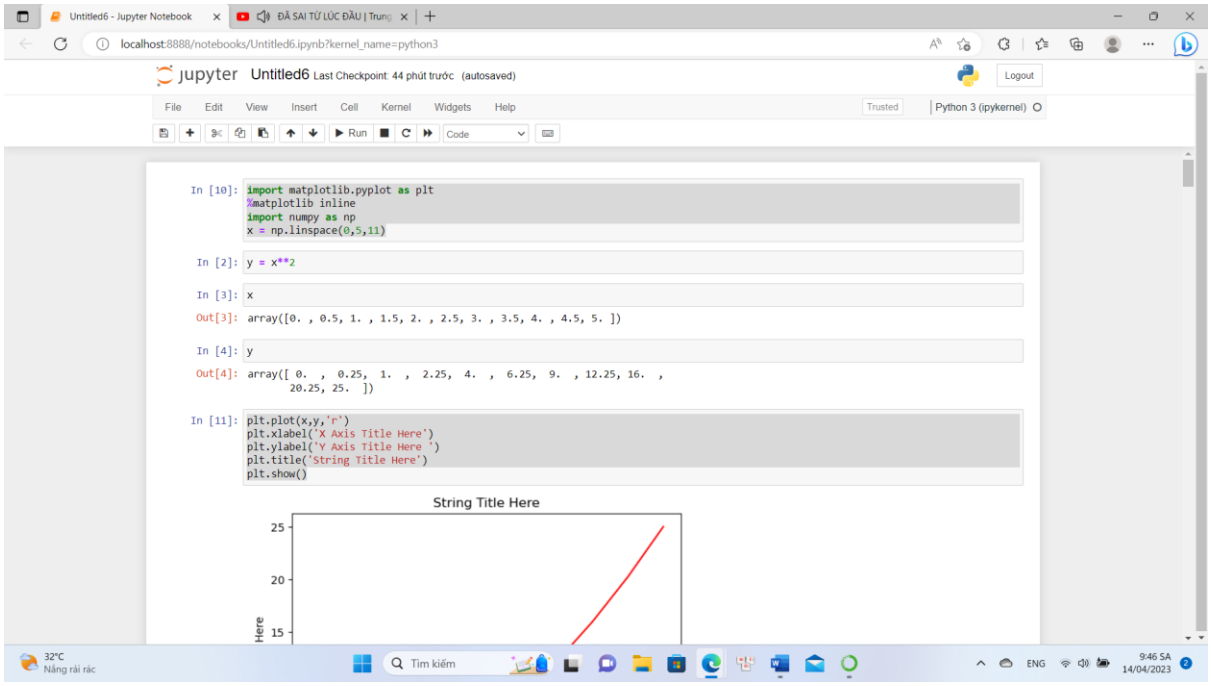
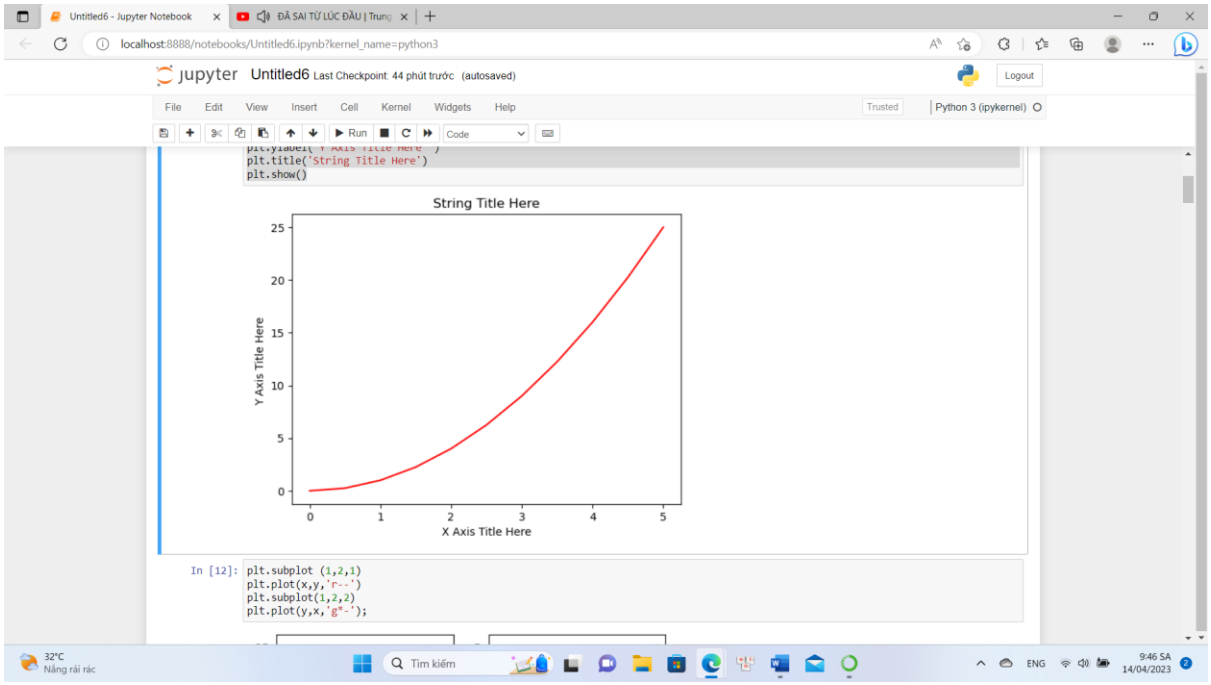
Nguyen Hoang Long_19521787

Github: https://github.com/glong25/DataMiningg.git



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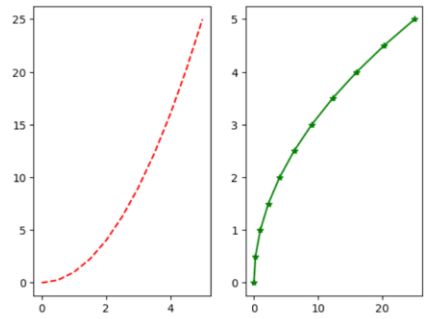
Run Code

X Axis Title Here

In [12]:
```
plt.subplot (1,2,1)
plt.plot(x,y,'r--')
plt.subplot(1,2,2)
plt.plot(y,x,'g*-');
```




In [13]:
```
fig = plt.figure()
axes = fig.add_axes([0.1,0.1,0.8,0.8])
axes.plot(x,y,'b')
axes.set_xlabel('Set x label')
```

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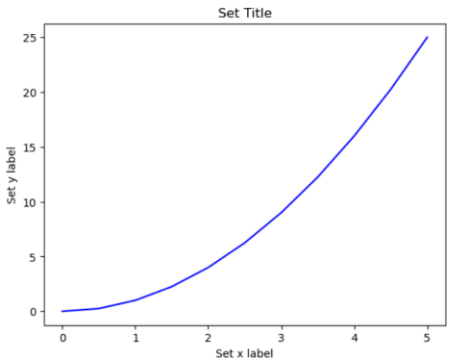
Run Code

In [13]:
```
fig = plt.figure()
axes = fig.add_axes([0.1,0.1,0.8,0.8])
axes.plot(x,y,'b')
axes.set_xlabel('Set x label')
axes.set_ylabel('Set y label')
axes.set_title('Set Title')
```

Out[13]: Text(0.5, 1.0, 'Set Title')

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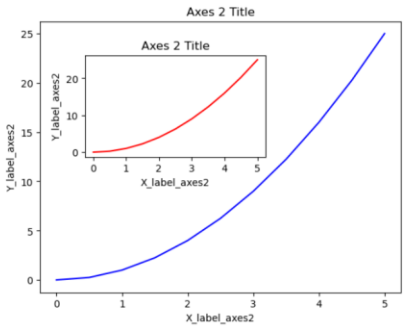
Run Code

In [14]:
```
fig = plt.figure()
axes1 = fig.add_axes([0.1,0.1,0.8,0.8])
axes2 = fig.add_axes([0.2,0.5,0.4,0.3])
axes1.plot(x,y,'b')
axes1.set_xlabel('X_label_axes2')
axes1.set_ylabel('Y_label_axes2')
axes1.set_title('Axes 2 Title')
axes2.plot(x,y,'r')
axes2.set_xlabel('X_label_axes2')
axes2.set_ylabel('Y_label_axes2')
axes2.set_title('Axes 2 Title')
```

Out[14]: Text(0.5, 1.0, 'Axes 2 Title')

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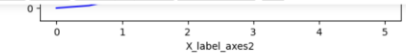
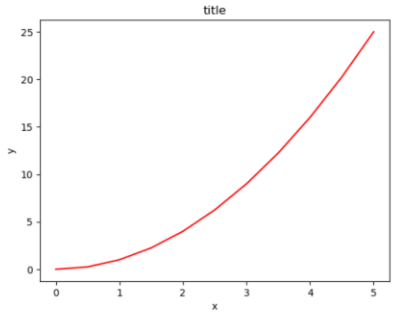



In [16]:
```
fig, axes = plt.subplots()
axes.plot(x,y,'r')
axes.set_xlabel('x')
axes.set_ylabel('y')
axes.set_title('title')
```

Out[16]: Text(0.5, 1.0, 'title')

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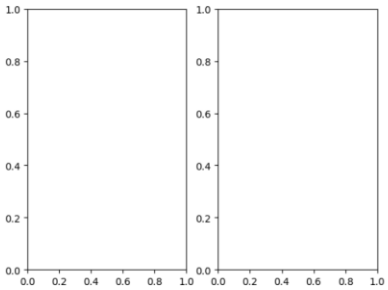
Run Code

In [17]:
```
fig, axes = plt.subplots(nrows=1, ncols=2)
```




In [18]:
```
axes
```

Out[18]:
```
array([<AxesSubplot:>, <AxesSubplot:>], dtype=object)
```

In [19]:
```
for ax in axes:
    ax.plot(x,y,'b')
    ax.set_xlabel('x')
    ax.set_ylabel('y')
    ax.set_title('title')
```

In [20]:
```
fig
```

Out[20]:

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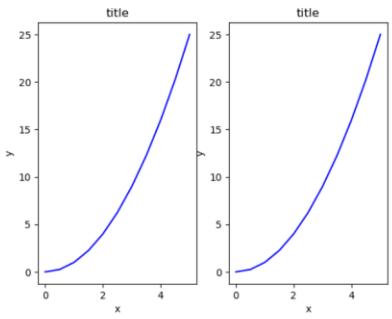
Run Code

In [20]:
```
fig
```

Out[20]:




In [22]:
```
fig, axes = plt.subplots(nrows=1, ncols=2)
for ax in axes:
    ax.plot(x,y,'g')
    ax.set_xlabel('x')
    ax.set_ylabel('y')
    ax.set_title('title')
fig
plt.tight_layout()
```

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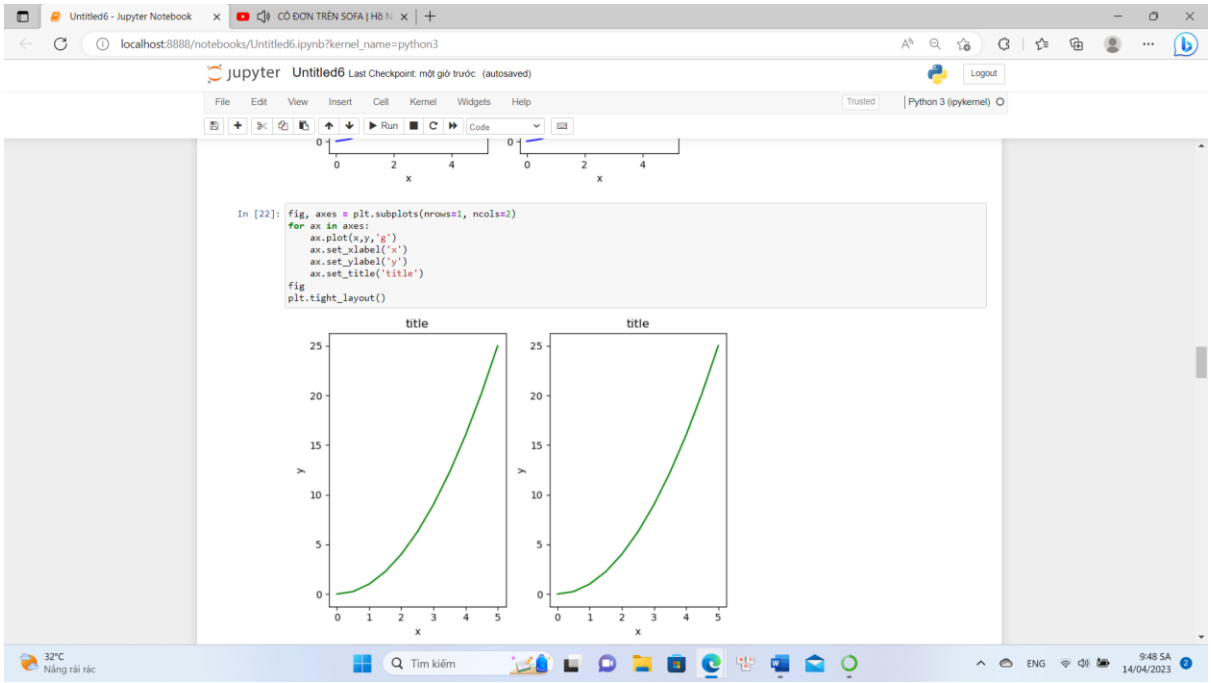
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Trusted
Python 3 (ipykernel)
Run
Code
In [22]:
fig, axes = plt.subplots(nrows=1, ncols=2)
for ax in axes:
ax.plot(x,y,'g')
ax.set_xlabel('x')
ax.set_ylabel('y')
ax.set_title('title')
fig
plt.tight_layout()
title
title
x
y
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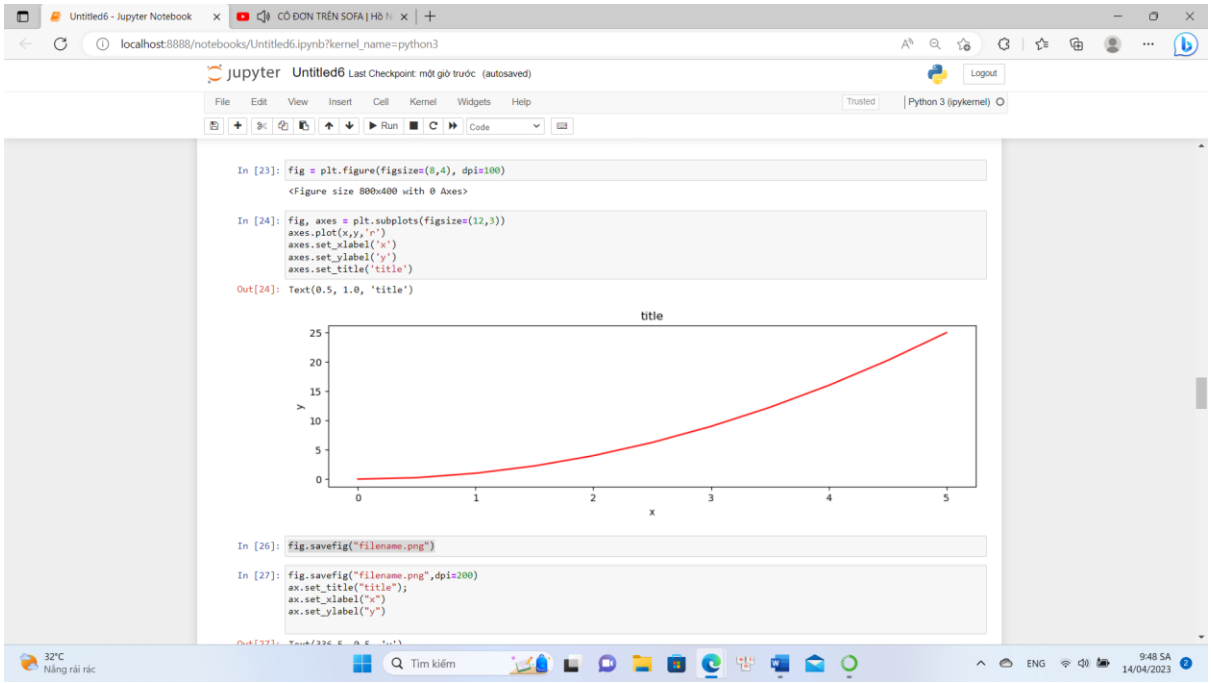
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Trusted
Python 3 (ipykernel)
Run
Code
In [23]:
fig = plt.figure(figsize=(8,4), dpi=100)
<Figure size 800x400 with 0 Axes>
In [24]:
fig, axes = plt.subplots(figsize=(12,3))
axes.plot(x,y,'r')
axes.set_xlabel('x')
axes.set_ylabel('y')
axes.set_title('title')
Out[24]:
Text(0.5, 1.0, 'title')
title
x
y
In [26]:
fig.savefig("filename.png")
In [27]:
fig.savefig("filename.png",dpi=200)
ax.set_title("title");
ax.set_xlabel("x")
ax.set_ylabel("y")
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ENG
9:48 SA
14/04/2023

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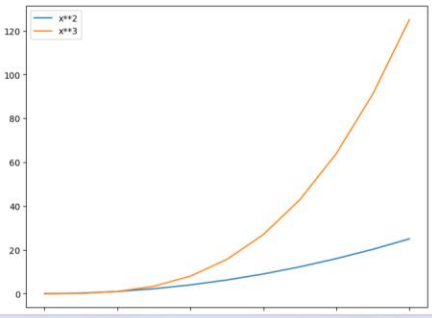
Run Code

In [27]:
```
fig.savefig("filename.png",dpi=200)
ax.set_title("title");
ax.set_xlabel("x")
ax.set_ylabel("y")
```

Out[27]:
```
Text(336.5, 0.5, 'y')
```

In [29]:
```
fig = plt.figure()
ax=fig.add_axes([0,0,1,1])
ax.plot(x,x**2, label="x**2")
ax.plot(x,x**3, label="x**3")
ax.legend()
```

Out[29]:
```
<matplotlib.legend.Legend at 0x18e6840cb20>
```

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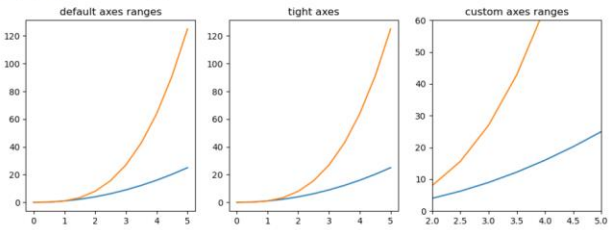
Run Code

In [30]:
```
fig, axes = plt.subplots(1,3,figsize=(12,4))
axes[0].plot(x,x**2,x,x**3)
axes[0].set_title("default axes ranges")
axes[1].plot(x,x**2,x,x**3)
axes[1].axis('tight')
axes[1].set_title("tight axes")
axes[2].plot(x,x**2,x,x**3)
axes[2].set_ylim([0,60])
axes[2].set_xlim([2,5])
axes[2].set_title("custom axes ranges")
```

Out[30]:
```
Text(0.5, 1.0, 'custom axes ranges')
```




In [31]:
```
import matplotlib.pyplot as plt
```

In [32]:
```
import pandas as pd
```

In [33]:
```
import matplotlib.image as mpimg
import seaborn as sns
%matplotlib inline
sns.get_dataset_names()
```

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Trusted | Python 3 (ipykernel)

Run Code

In [32]:
```
import pandas as pd
```

In [33]:
```
import matplotlib.image as mpimg
import seaborn as sns
%matplotlib inline
sns.get_dataset_names()
```

Out[33]:
```
['anagrams',
 'anscombe',
 'attention',
 'brain_networks',
 'car_crashes',
 'diamonds',
 'dots',
 'dowjones',
 'exercise',
 'flights',
 'fmri',
 'geyser',
 'glue',
 'healthexp',
 'iris',
 'mpg',
 'penguins',
 'planets',
 'seaice',
 'taxis',
 'tips',
 'titanic']
```

In [34]:
```
tips = sns.load_dataset("tips")
tips.head()
```

Out[34]:

| | 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 |

In [35]:
```
ax = sns.scatterplot(x="total_bill", y = "tip", data=tips)
```

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Run Code

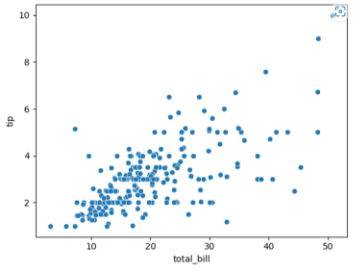
'tips',
'titanic']

In [34]:
```
tips = sns.load_dataset("tips")
tips.head()
```

Out[34]:

| | 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 |

In [35]:
```
ax = sns.scatterplot(x="total_bill", y = "tip", data=tips)
```




In [36]:
```
sns.relplot(x="total_bill", y="tip", data=tips, kind="scatter", hue="sex", size="size")
```

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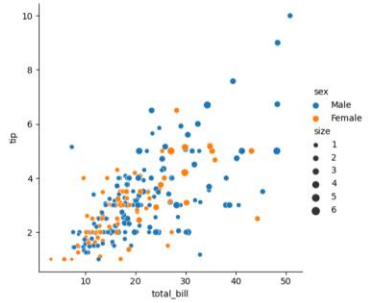
Run Code

```
In [36]: sns.relplot(x="total_bill", y="tip", data=tips, kind="scatter", hue="sex", size="size")
Out[36]: <seaborn.axisgrid.FacetGrid at 0x18e6b88bca0>
```




```
In [37]: sns.catplot(x="sex", y="total_bill", hue="day", data=tips, kind="strip")
Out[37]: <seaborn.axisgrid.FacetGrid at 0x18e6b1177f0>
```

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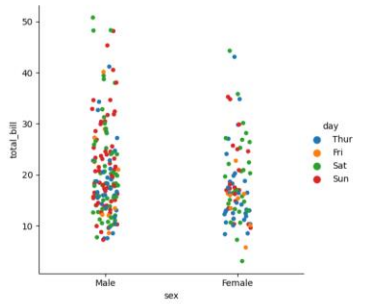
In [37]: sns.catplot(x="sex", y="total_bill", hue="day", data=tips, kind="strip")

Out[37]: <seaborn.axisgrid.FacetGrid at 0x18e6b1177f0>




```
In [38]: sns.catplot(x="sex", y="total_bill", hue="day", data=tips, kind="strip", jitter=False, dodge= True)
Out[38]: <seaborn.axisgrid.FacetGrid at 0x18e6c2846d0>
```

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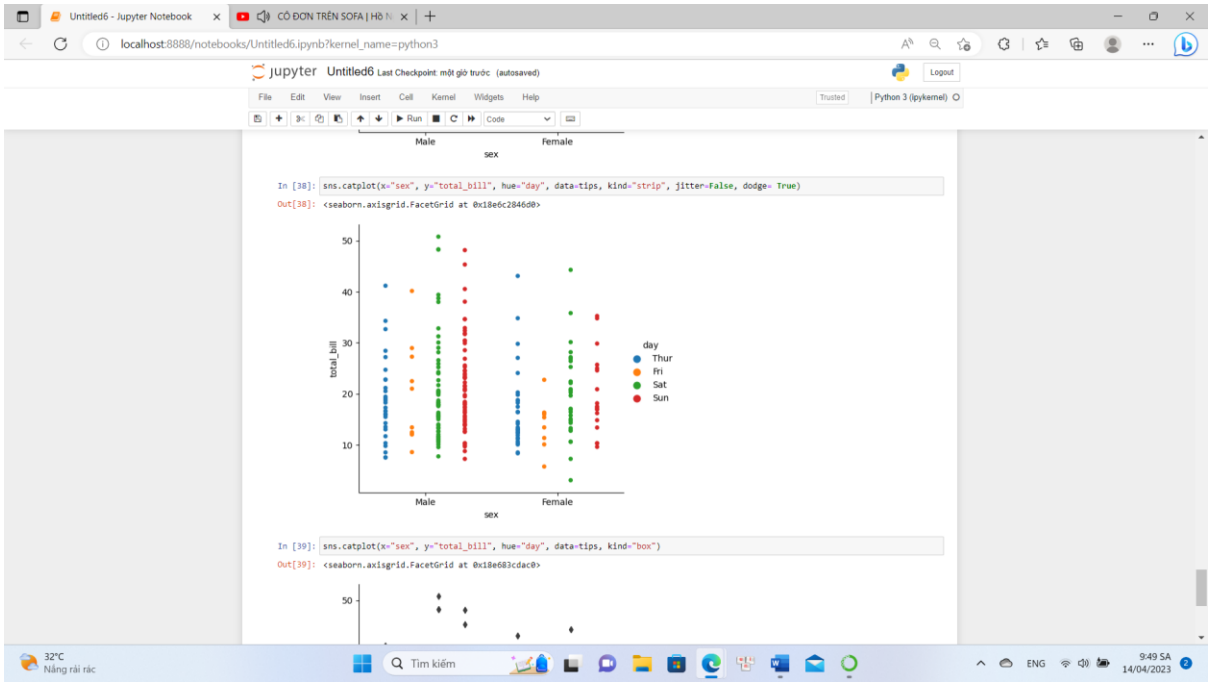
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Python 3 (ipykernel)
Male
Female
sex
In [38]: sns.catplot(x="sex", y="total_bill", hue="day", data=tips, kind="strip", jitter=False, dodge= True)
Out[38]: <seaborn.axisgrid.FacetGrid at 0x18e6c2846d0>
total_bill
day
Thur
Fri
Sat
Sun
In [39]: sns.catplot(x="sex", y="total_bill", hue="day", data=tips, kind="box")
Out[39]: <seaborn.axisgrid.FacetGrid at 0x18e683cdac0>
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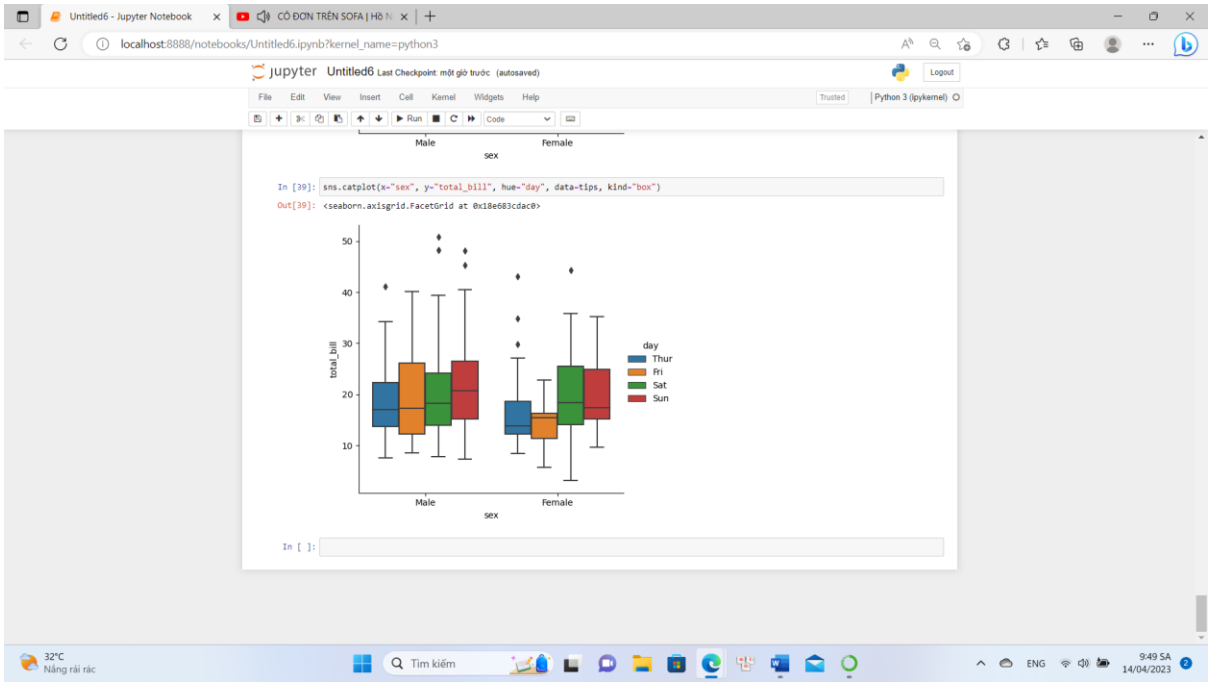
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Python 3 (ipykernel)
Male
Female
sex
In [39]: sns.catplot(x="sex", y="total_bill", hue="day", data=tips, kind="box")
Out[39]: <seaborn.axisgrid.FacetGrid at 0x18e683cdac0>
total_bill
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9:49 SA
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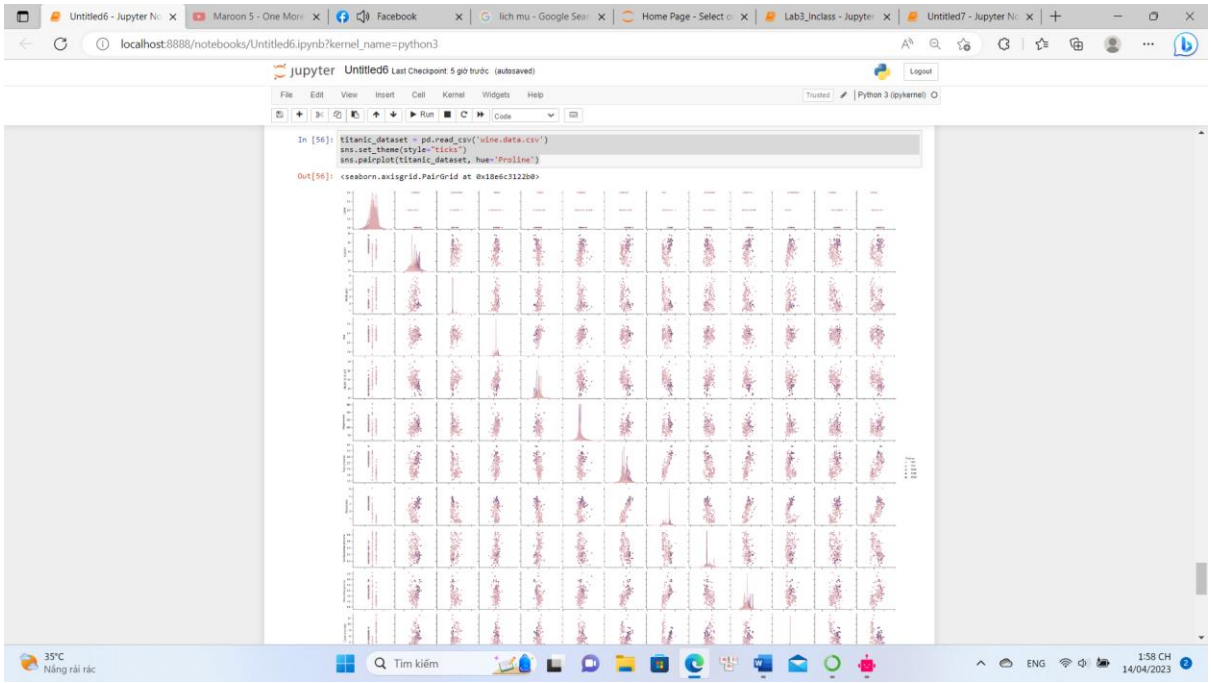
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Python 3 (ipykernel)
Run
Code
In [56]:
titanic_dataset = pd.read_csv('wine.data.csv')
sns.set_theme(style="ticks")
sns.pairplot(titanic_dataset, hue='Proline')
Out[56]:
<seaborn.axisgrid.PairGrid at 0x18e6c3122b0>
35°C
Nắng rải rác
Tìm kiếm
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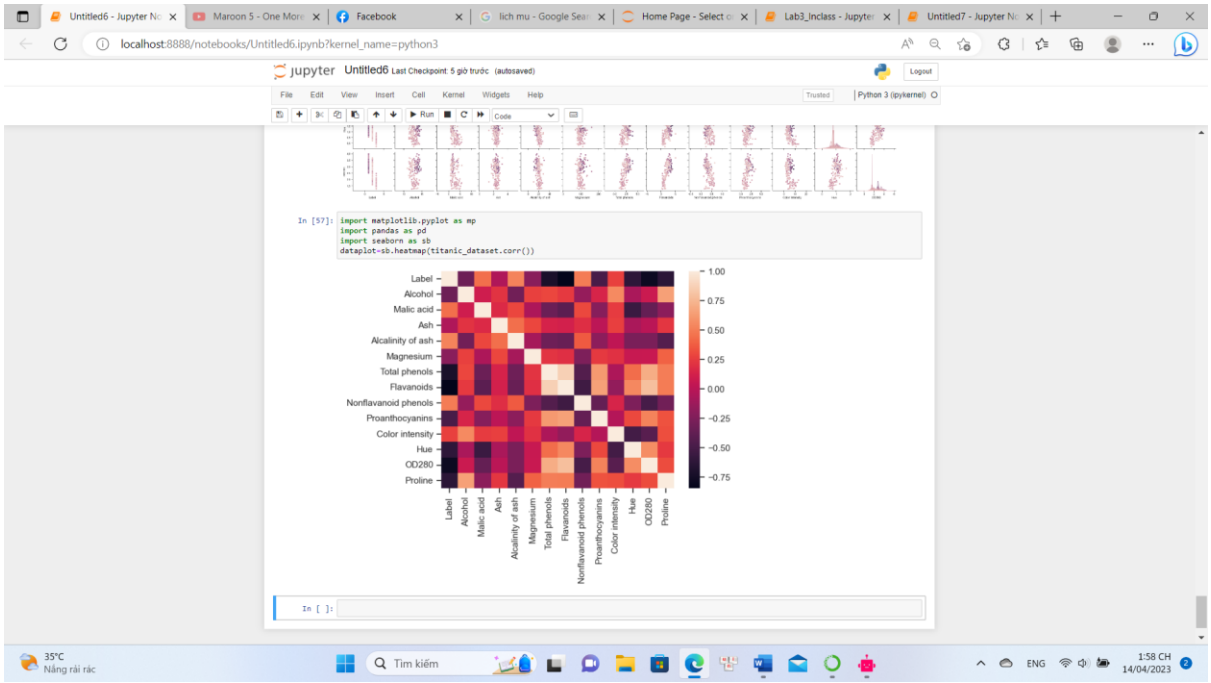
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localhost:8888/notebooks/Untitled6.ipynb?kernel_name=python3
jupyter Untitled6 Last Checkpoint: 5 giờ trước (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [57]:
import matplotlib.pyplot as mp
import pandas as pd
import seaborn as sb
dataplot=sb.heatmap(titanic_dataset.corr())
Label
Alcohol
Malic acid
Ash
Alcalinity of ash
Magnesium
Total phenols
Flavanoids
Nonflavanoid phenols
Proanthocyanins
Color intensity
Hue
OD280
Proline
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
In [ ]:
35°C
Nắng rải rác
Tìm kiếm
ENG
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14/04/2023