```
pip install bokeh
```

```
    Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
    Requirement already satisfied: bokeh in /usr/local/lib/python3.9/dist-packages (2.4.3)
    Requirement already satisfied: PyYAML>=3.10 in /usr/local/lib/python3.9/dist-packages (from bokeh) (6.0)
    Requirement already satisfied: numpy>=1.11.3 in /usr/local/lib/python3.9/dist-packages (from bokeh) (1.22.4)
    Requirement already satisfied: tornado>=5.1 in /usr/local/lib/python3.9/dist-packages (from bokeh) (6.2)
    Requirement already satisfied: typing-extensions>=3.10.0 in /usr/local/lib/python3.9/dist-packages (from bokeh) (4.5.0)
    Requirement already satisfied: Jinja2>=2.9 in /usr/local/lib/python3.9/dist-packages (from bokeh) (3.1.2)
    Requirement already satisfied: packaging>=16.8 in /usr/local/lib/python3.9/dist-packages (from bokeh) (23.0)
    Requirement already satisfied: pillow>=7.1.0 in /usr/local/lib/python3.9/dist-packages (from bokeh) (8.4.0)
    Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.9/dist-packages (from Jinja2>=2.9->bokeh) (2.1.2)
```

Bokeh is a Python library for creating interactive data visualizations in web browsers. It is built to enable the creation of complex visualizations with very large and streaming datasets. Bokeh provides a range of tools and options for creating interactive plots, charts, and graphs with ease.

```
vel interface for creating Bokeh plots.
ng in a standalone Python script or outside of a notebook environment, you could use the output_file() function instead to specify an out
```

```
from bokeh.plotting import figure,output_file,show
#This line of code imports the figure, output_file, and show functions from the bokeh.plotting module. The figure function is used to cre
from bokeh.sampledata.iris import flowers
```

```
flowers
```

|	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...	...	...	...	...	...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

150 rows × 5 columns

```
output_file('test.html')

p=figure(title='test·flower')
p.xaxis.axis_label="petal_length"
p.yaxis.axis_label="petal_width"
p.circle(flowers['petal_length'],flowers['petal_width'])
show(p)
```
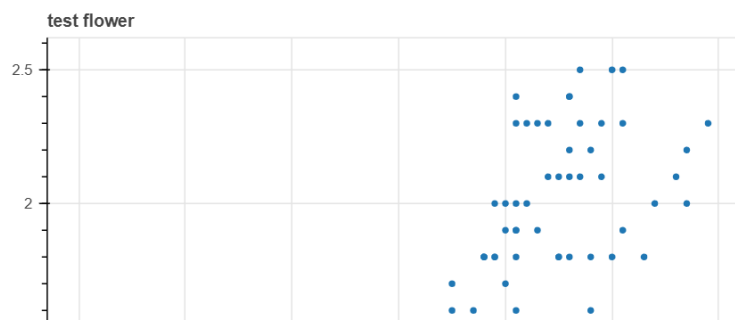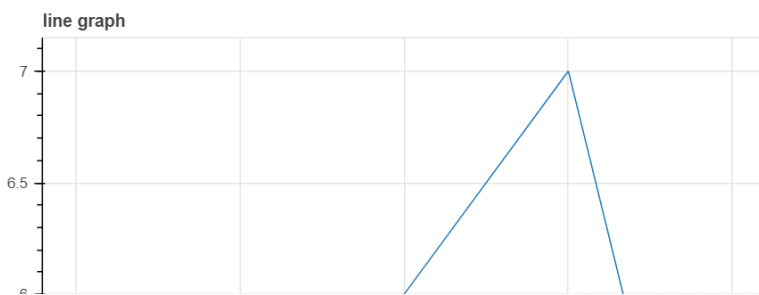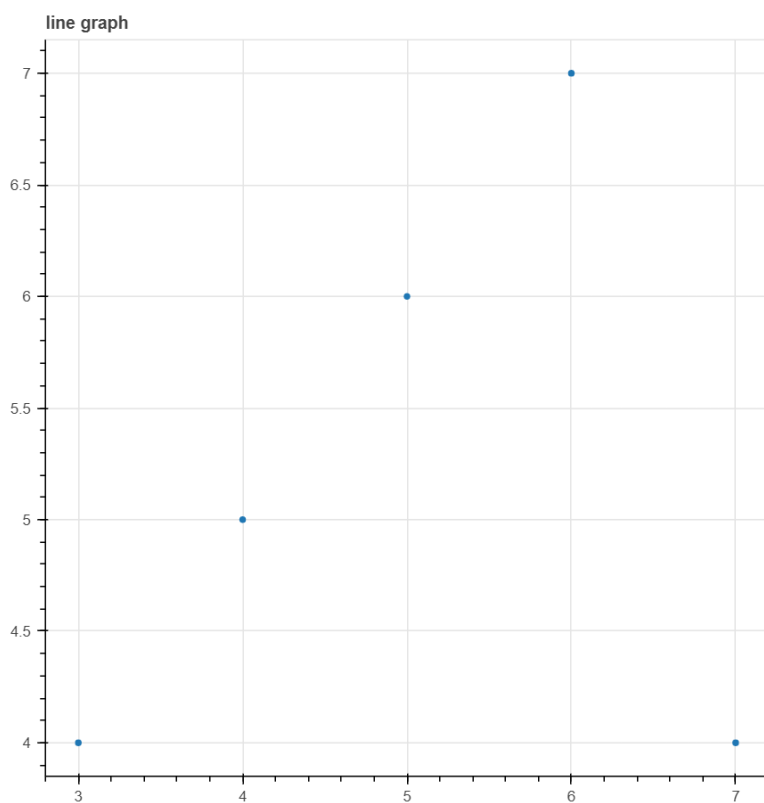
test flower


```
output_file('test.html')

p=figure(title='test flower')
p.xaxis.axis_label="petal_length"
p.yaxis.axis_label="petal_width"
p.line(flowers['petal_length'],flowers['petal_width'])
show(p)
```
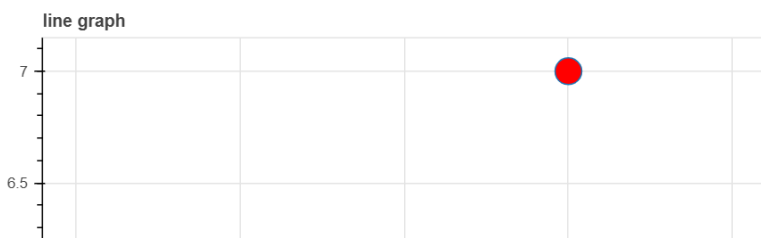
test flower
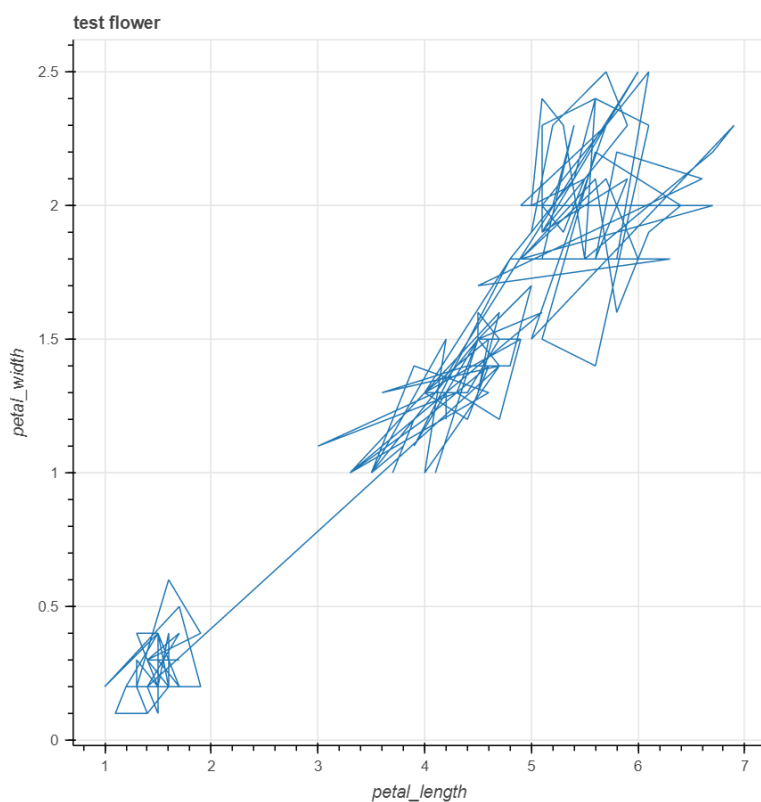

```
x=[3,4,5,6,7]
y=[4,5,6,7,4]
output_file('line.html')
p=figure(title='line graph')
p.line(x,y)
show(p)
```
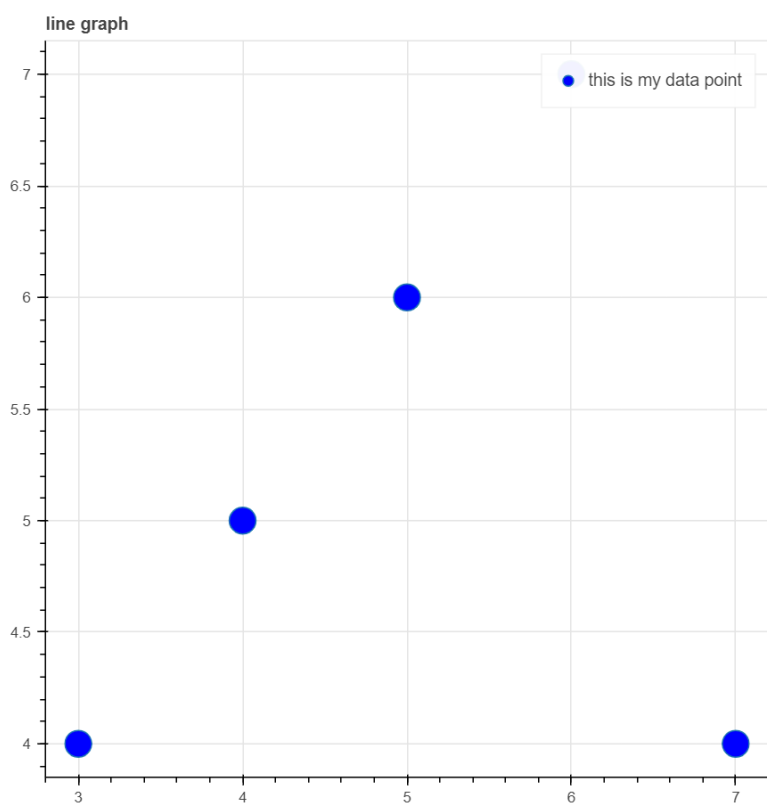
```
x=[3,4,5,6,7]
y=[4,5,6,7,4]
output_file('line.html')
p=figure(title='line graph')
p.scatter(x,y)
show(p)
```



```
x=[3,4,5,6,7]
y=[4,5,6,7,4]
output_file('line.html')
p=figure(title='line graph')
p.scatter(x,y,size=20,fill_color='red')
show(p)
```

line graph


```
x=[3,4,5,6,7]
y=[4,5,6,7,4]
output_file('line.html')
p=figure(title='line graph')
p.scatter(x,y,size=20,fill_color='blue',legend_label='this is my data point')
show(p)
```

line graph

✓ 0s   completed at 8:35 PM