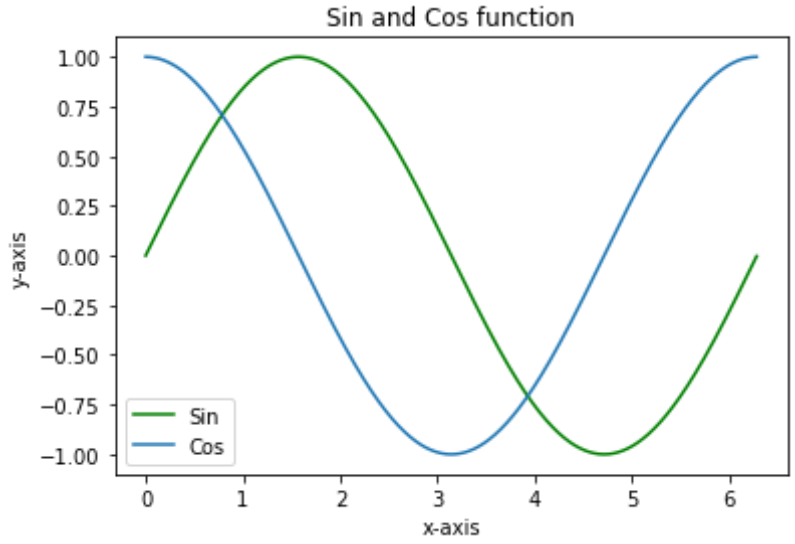
In [10]:
```
#import numpy as np
import matplotlib.pyplot as plt
import numpy as np
```

In [12]:
```
x = np.arange(0,np.pi*2,0.01)
y1 = np.sin(x)
y2 = np.cos(x)
plt.plot(x,y1,label='Sin',color='g')
plt.plot(x,y2,label='Cos')
plt.xlabel('x-axis')
plt.ylabel('y-axis')
plt.legend() #for below sin cos label, position we can't fix.
plt.title('Sin and Cos function')
plt.show()
```



In [20]:
```
import pandas as pd
```

In [21]:
```
flavor = ['choco','mango','orange','pineapple']
```

In [22]:
```
s = pd.Series(flavor)
s
```

Out[22]:
```
0        choco
1        mango
2       orange
3    pineapple
dtype: object
```

In [25]:
```
s.values
```

Out[25]:
```
array(['choco', 'mango', 'orange', 'pineapple'], dtype=object)
```

In [27]:
```
s.index #starting 0 to 4
```

Out[27]:
```
RangeIndex(start=0, stop=4, step=1)
```

In [29]:
```
s.dtype # o means object, means 'string' type data
```

Out[29]:
```
dtype('O')
```

In [33]:
```
fruit=['apple','banana','mango']
weekday=['mon','tue','thur']
```

In [34]:
```
pd.Series(fruit,weekday)
```

Out[34]:
```
mon      apple
tue     banana
thur     mango
dtype: object
```

In [36]:
```
pd.Series(weekday,fruit)
```

Out[36]:
```
apple      mon
banana     tue
mango     thur
dtype: object
```

In [38]:
```
pd.Series(data=fruit,index=weekday)
```

Out[38]:
```
mon      apple
tue     banana
thur     mango
dtype: object
```

In [40]:
```
pd.Series(fruit,index=weekday)
```

Out[40]:
```
mon      apple
tue     banana
thur     mango
dtype: object
```

In [43]:
```
import pandas as pd
```

In [45]:
```
data.head()
```

```
---------------------------------------------------------------------
----
NameError                                 Traceback (most recent call l
ast)
<ipython-input-45-304fa4ce4ebd> in <module>
----> 1 data.head()

NameError: name 'data' is not defined
```