In [1]:
```
float(2)
```

Out[1]: 2.0

In [3]:
```
float(True)
```

Out[3]: 1.0

In [5]:
```
float(1+2j)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[5], line 1
----> 1 float(1+2j)

TypeError: float() argument must be a string or a real number, not 'complex'
```

In [7]:
```
float(3,4)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[7], line 1
----> 1 float(3,4)

TypeError: float expected at most 1 argument, got 2
```

In [9]:
```
float('10')
```

Out[9]: 10.0

In [11]:
```
float('ten')
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[11], line 1
----> 1 float('ten')

ValueError: could not convert string to float: 'ten'
```

In [13]:
```
complex(10)
```

Out[13]: (10+0j)

In [15]:
```
complex(10,20)
```

Out[15]: (10+20j)

In [17]:
```
complex(10,20,30)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[17], line 1
----> 1 complex(10,20,30)

TypeError: complex() takes at most 2 arguments (3 given)
```

In [19]:
```
complex(2.3)
```

Out[19]: (2.3+0j)

In [21]:
```
complex(2.3,10)
```

Out[21]: (2.3+10j)

In [23]:
```
complex(True)
```

Out[23]: (1+0j)

In [25]:
```
complex(False)
```

Out[25]: 0j

In [27]:
```
complex('10')
```

Out[27]: (10+0j)

In [29]:
```
bool(2)
```

Out[29]: True

In [31]:
```
bool(3)
```

Out[31]: True

In [33]:
```
bool(0)
```

Out[33]: False

In [35]:
```
bool('1')
```

Out[35]: True

In [37]:
```
bool(2.3)
```

Out[37]: True

In [39]:
```
bool()
```

Out[39]: False

In [41]:
```
bool('0')
```

Out[41]: True

In [43]:
```
bool('kit')
```

Out[43]: True

In [45]:
```
bool(10+2j)
```

Out[45]: True

In [47]:
```
bool(0+1)
```

Out[47]: True

In [49]:
```
 print(str(2))
print(str(2.3))
print(str(True))
print(str(1+2j))
```

```
2
2.3
True
(1+2j)
```

In [51]:
```
str(2)
```

Out[51]: '2'

In [53]:
```
index='HELLOPYTHON'
index
```

Out[53]: 'HELLOPYTHON'

In [55]:
```
index[:]
```

Out[55]: 'HELLOPYTHON'

In [57]:
```
index[2:-1]
```

Out[57]: 'LLOPYTHO'

In [63]:
```
index[::-1]
```

Out[63]: 'NOHTYPOLLEH'

In [65]:
```
index[::-4]
```

Out[65]: 'NYL'

In [67]:
```
index[:-4]
```

Out[67]: 'HELLOPY'

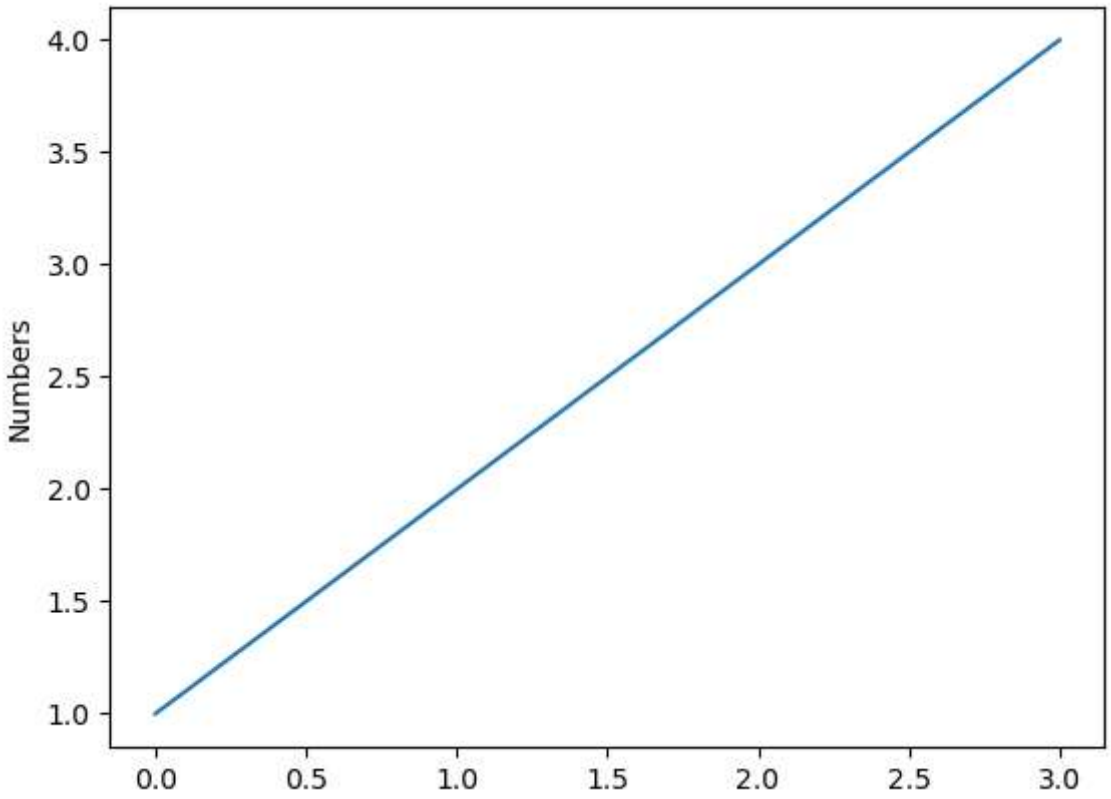
In [69]:
```
index[1:10:3]
```

Out[69]:
```
'EOT'
```

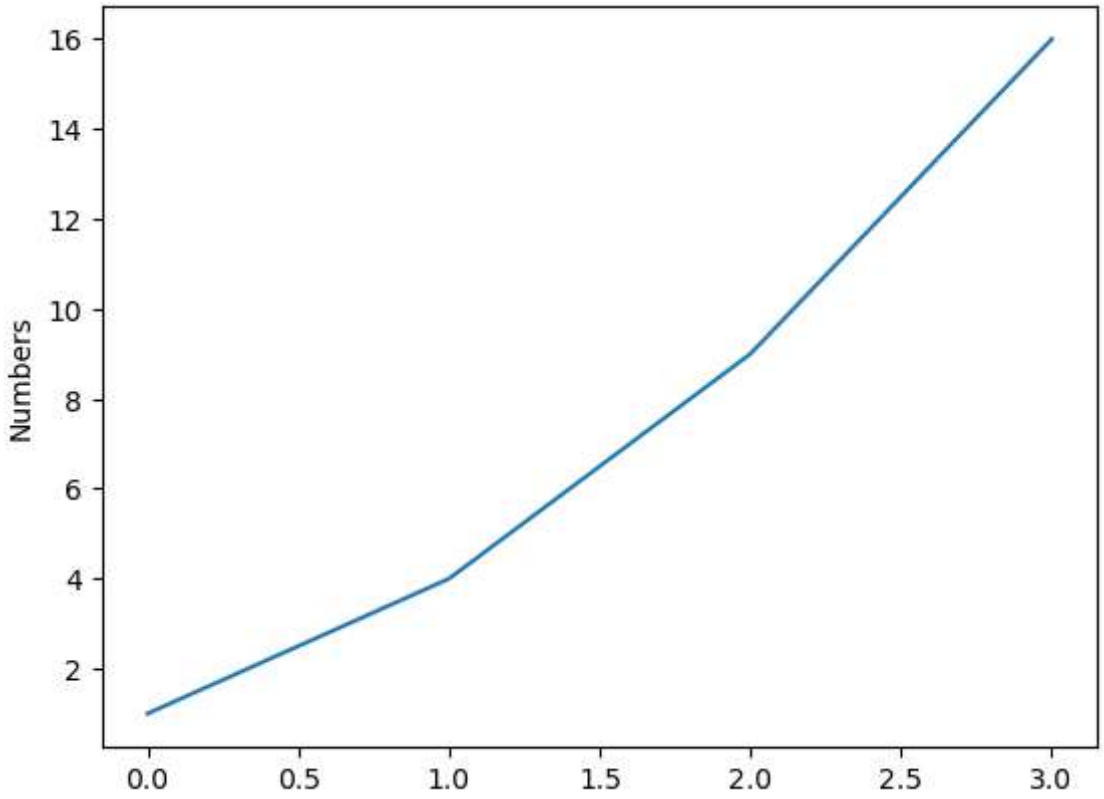
In [71]:
```
index[::1]
```

Out[71]:
```
'HELLOPYTHON'
```

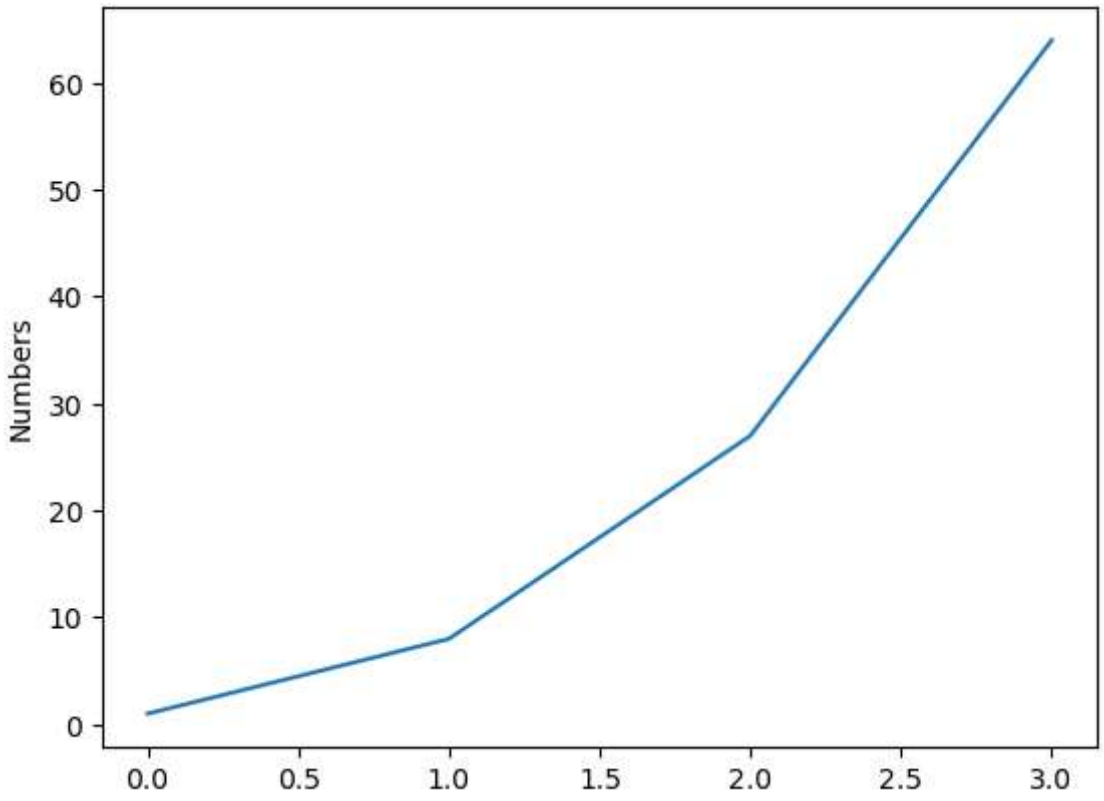
In [79]:
```
import matplotlib.pyplot as plt
plt.plot([1,2,3,4])
plt.ylabel('Numbers')
plt.show()
```



In [81]:
```
import matplotlib.pyplot as plt
plt.plot([1,4,9,16])
plt.ylabel('Numbers')
plt.show()
```



In [83]:
```
import matplotlib.pyplot as plt
plt.plot([1,8,27,64])
plt.ylabel('Numbers')
plt.show()
```



In [ ]: