In [1]:
```python
# 모듈 다운 pip install (module name), 모듈 없으면 에러
```
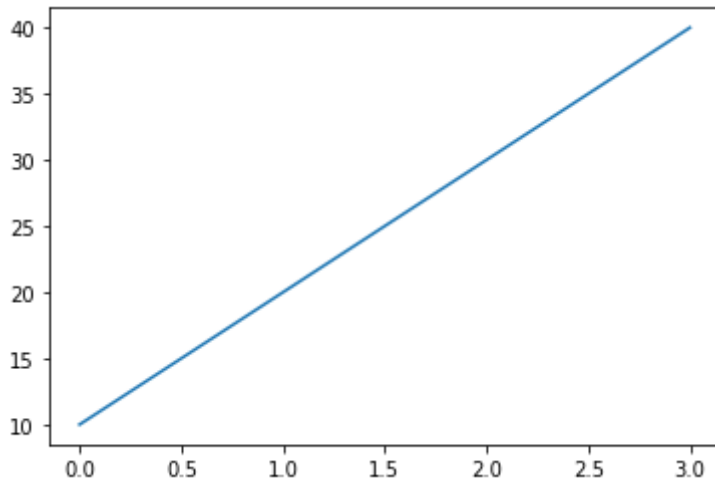
In [2]:
```python
import matplotlib.pyplot as plt # Matplotlib 모듈 임포트

plt.plot([10,20,30,40])
plt.show()
```
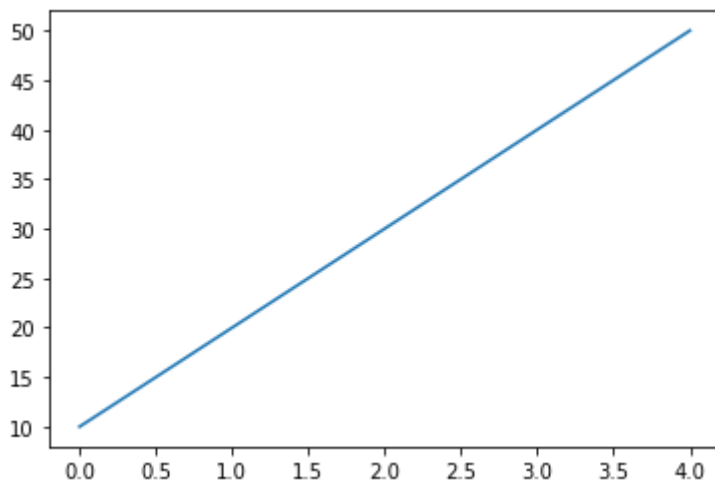
Out[2]: `<function matplotlib.pyplot.show(close=None, block=None)>`

In [3]:
```python
import matplotlib.pyplot as plt # Matplotlib 모듈 임포트

values = [10,20,30,40,50]
plt.plot(values)
```

Out[3]: `[<matplotlib.lines.Line2D at 0x1ef112d0400>]`

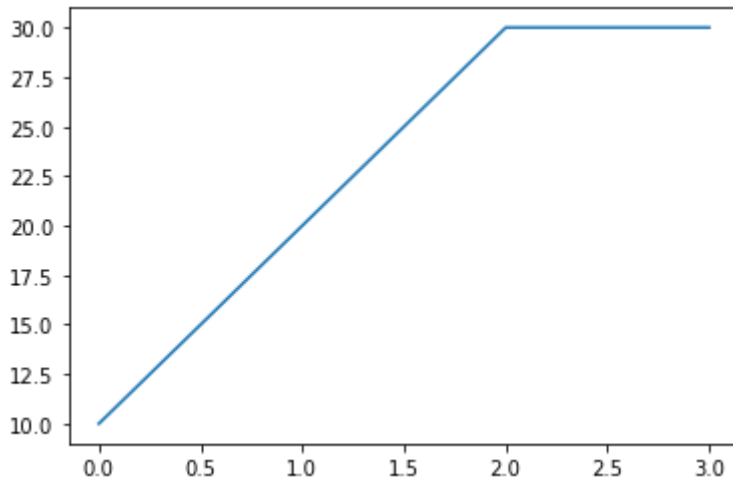In [5]:
```python
import matplotlib.pyplot as plt # Matplotlib 모듈 임포트

부서A = [10,20,30,30] #리스트 생성

plt.plot(부서A)
plt.show()
```

Out[5]: `<function matplotlib.pyplot.show(close=None, block=None)>`

```
In [25]: import matplotlib.pyplot as plt # Matplotlib 모듈 임포트

부서A = [10,20,30,30] #리스트 생성
부서B = [50,20,40,40]

plt.plot(부서A, marker='o', color= 'r', markersize = 10, label = 'A ')
plt.plot(부서B, marker='*', color = 'b', markersize = 10, label = 'B')

plt.rc('font',family='Gothic')

plt.title('부서별 판매량')

plt.xlim(0,5)
plt.ylim(0,50)

plt.grid(True)

plt.xlabel('사원')
plt.ylabel('실적')

plt.legend()

plt.show()
```
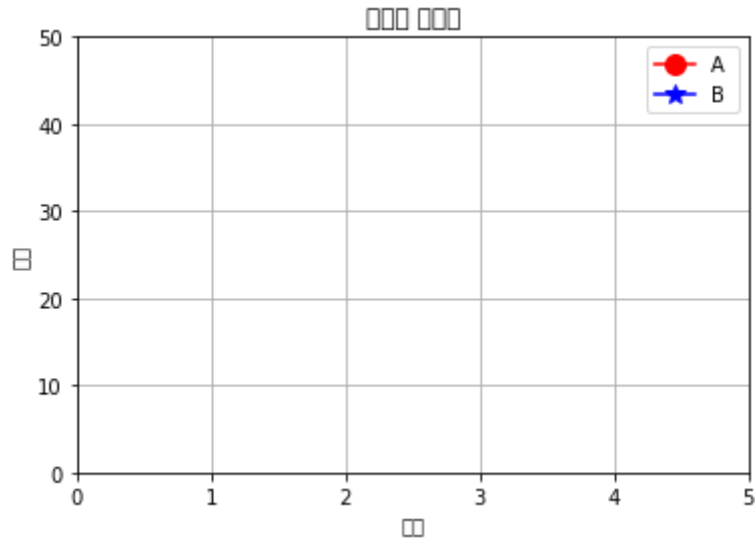
```
C:\Anaconda3\lib\site-packages\IPython\core\pylabtools.py:151: UserWarning: Glyph 49
324 (\N{HANGUL SYLLABLE SA}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Anaconda3\lib\site-packages\IPython\core\pylabtools.py:151: UserWarning: Glyph 50
896 (\N{HANGUL SYLLABLE WEON}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Anaconda3\lib\site-packages\IPython\core\pylabtools.py:151: UserWarning: Glyph 49
892 (\N{HANGUL SYLLABLE SIL}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:\Anaconda3\lib\site-packages\IPython\core\pylabtools.py:151: UserWarning: Glyph 51
201 (\N{HANGUL SYLLABLE JEOG}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
```

```
In [26]: import matplotlib.pyplot as plt # Matplotlib 모듈 임포트

         x=['100', '200','300','400'] #

         부서A = [10,20,30,30] #리스트 생성
         부서B = [50,20,40,40]

         plt.plot(x,부서A, marker='o', color= 'r', markersize = 10, label = 'A ') #plt.plot(
         plt.plot(x,부서B, marker='*', color = 'b', markersize = 10, label = 'B')

         plt.rc('font',family='Gothic')

         plt.title('부서별 판매량')

         plt.xlim(0,5)
         plt.ylim(0,50)

         plt.grid(True)

         plt.xlabel('사원')
         plt.ylabel('실적')

         plt.legend()

         plt.show()
```
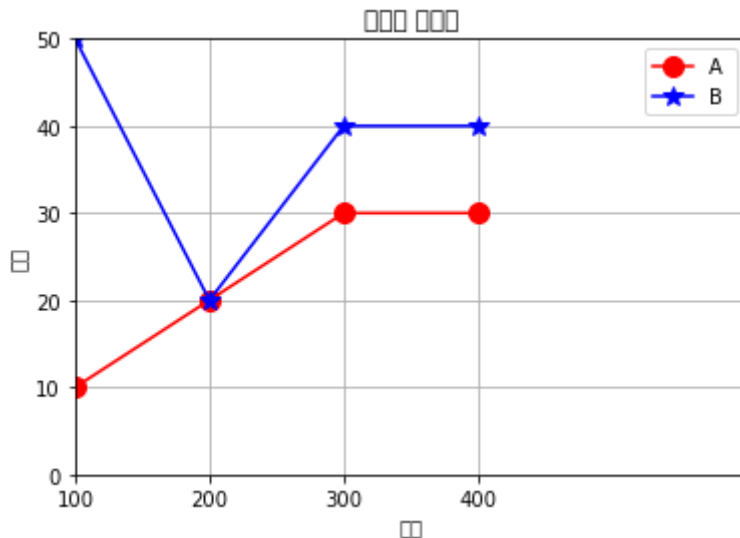
```
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 48
512 (₩N{HANGUL SYLLABLE BU}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 49
436 (₩N{HANGUL SYLLABLE SEO}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 48
324 (₩N{HANGUL SYLLABLE BYEOL}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 54
032 (₩N{HANGUL SYLLABLE PAN}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 47
588 (₩N{HANGUL SYLLABLE MAE}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 47
049 (₩N{HANGUL SYLLABLE RYANG}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 49
324 (₩N{HANGUL SYLLABLE SA}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 50
896 (₩N{HANGUL SYLLABLE WEON}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 49
892 (₩N{HANGUL SYLLABLE SIL}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
C:₩Anaconda3₩lib₩site-packages₩IPython₩core₩pylabtools.py:151: UserWarning: Glyph 51
201 (₩N{HANGUL SYLLABLE JEOG}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
```


In [29]:
```python
import matplotlib.pyplot as plt # Matplotlib 모듈 임포트

temp1994=[39.6,37.9,37.9,34.9,33.9,35.3,35.9,35.3,32.5,36.8] #리스트 생성
temp2018=[29.3,33.9,32.5,32.4,35.6,35.9,33.6,33.8,37.0,29.3]

plt.plot(temp1994, marker='o', color= 'b', markersize = 5, label = '1994 ') #plt.pl
plt.plot(temp2018, marker='o', color = 'orange', markersize = 5, label = '2018')


plt.ylim(20,45)#y축벙위

plt.legend() #그래프 범례 추가(label)

plt.show() #그래프 출력
```
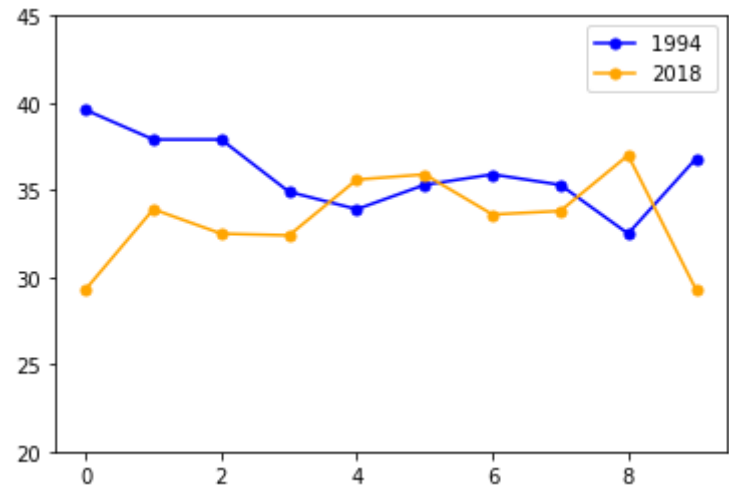
In [ ]: