```
In [1]: x = 5

In [4]: x

Out [4]: what is printed here?

In [3]: x = 6
```

What if we click "Restart & Run All" from the "Kernel" menu?

.....

Expression Result s[0] s[-1] s[-2:] s + s letters[0] s + letters s[1:] + s[:-1]

.....

Result

$$v = Series([-1, 1, 200, 191, 4])$$

Expression

	p. 000.011	
	v < 0	
	v * v == 1	
	v[v > 100]	
	v[v % 2 == 0]	
	v[(v>0) & (v<100)]	

note: boolean series s and t are ANDed with s & t (not s and t).
also: boolean series s and t are ORed with s | t (not s or t)

Code:	storms.csv:
<pre>path = "storms.csv" tab = pd.read_csv(path)</pre>	name,year,type,speed,place alice,2016,tornado,100,o bob,2016,hurricane,200,p
<pre>map = DataFrame({ "code": ["o","p","a"], "where": ["other","Pacific","Atlantic"] })</pre>	cindy,2017,tornado,150,o dan,2018,tornado,300,o eve,2018,hurricane,250,a

.....

Expression	Result
<pre>map["code"]</pre>	
map.code	
<pre>type(map.code), type(map.where)</pre>	
tab.year.mean()	
tab.year == 2018	
<pre>tab.name[tab.year == 2018]</pre>	
<pre>map["where"] == "Atlantic"</pre>	
b = map["where"] == "other"	# what are b, code, nms?
<pre>code = map.code[b].item()</pre>	
<pre>nms = tab.name[tab.place==code]</pre>	

tab.loc[0]
tab.loc[4, "type"]

map.loc[0,"where"] = "mainland" # what is place?

place = map["where"][0]

tab.loc[:, "speed"] += 1 # what is col?

col = tab.speed
what is col?

note: s.COL is a shortuct for s["COL"], unless COL collides with a method name **also**: when a Series s contains exactly one one item, s.item() extracts it