

day 3 | 250903

```
In [2]: import numpy as np
import pandas as pd
```

strings

```
In [3]: x = 'JD did his homework.'
```

```
In [4]: x
```

```
Out[4]: 'JD did his homework.'
```

```
In [19]: x[-4:-1]
```

```
Out[19]: 'ork'
```

lists

```
In [20]: y = [4, 5, 6.0, 'dog', 5+1j]
```

```
In [21]: y
```

```
Out[21]: [4, 5, 6.0, 'dog', (5+1j)]
```

```
In [28]: y[2]
```

```
Out[28]: 6.0
```

```
In [27]: y[2:3]
```

```
Out[27]: [6.0]
```

```
In [29]: y
```

```
Out[29]: [4, 5, 6.0, 'dog', (5+1j)]
```

```
In [30]: y.pop(3)
```

```
Out[30]: 'dog'
```

```
In [31]: y
```

```
Out[31]: [4, 5, 6.0, (5+1j)]
```

```
In [32]: z = [3.4, 5, 12.1, 15]
```

```
In [33]: a = y + z
```

```
In [34]: a
```

```
Out[34]: [4, 5, 6.0, (5+1j), 3.4, 5, 12.1, 15]
```

```
In [35]: b = y*z
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[35], line 1  
----> 1 b = y*z  
  
TypeError: can't multiply sequence by non-int of type 'list'
```

```
In [36]: a - 1
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[36], line 1  
----> 1 a - 1  
  
TypeError: unsupported operand type(s) for -: 'list' and 'int'
```

```
In [37]: c = np.array([1, 2, 5.0, 6.33333, 12])
```

```
In [38]: c
```

```
Out[38]: array([ 1.      ,  2.      ,  5.      ,  6.33333, 12.      ])
```

```
In [42]: c.dtype
```

```
Out[42]: dtype('float64')
```

```
In [43]: c[0]
```

```
Out[43]: 1.0
```

```
In [45]: c[2:4]
```

```
Out[45]: array([5.      ,  6.33333])
```

```
In [46]: y+1
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[46], line 1  
----> 1 y+1  
  
TypeError: can only concatenate list (not "int") to list
```

```
In [47]: c+1
```

```
Out[47]: array([ 2.      ,  3.      ,  6.      ,  7.33333, 13.      ])
```

```
In [ ]:
```