

## setss

April 22, 2024

### Sets

```
[3]: # define a set
myss = set()
mys = {"Ahmed", "Zeinab", "iti", 3234, "Ahmed", "Mohamed", "Mohamed", "Mohamed", 3.12, True, 0 }
# unordered datatype
# remove duplication
# no id -->
print(mys)
print(len(mys))
```

```
{0, True, 3234, 3.12, 'Mohamed', 'Ahmed', 'Zeinab', 'iti'}
8
```

“ ” add element to the set ? “ ” set is mutable datatype

```
[4]: mys.add("added item") # add items
print(mys)
```

```
{0, True, 3234, 3.12, 'added item', 'Mohamed', 'Ahmed', 'Zeinab', 'iti'}
```

check this

```
[5]: mys.add(("bash", "python"))
print(mys)
```

```
{0, True, 3234, 3.12, 'added item', 'Mohamed', 'Ahmed', 'Zeinab', 'iti',
('bash', 'python')}
```

```
[6]: mys.add(["e", "ff"])
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[6], line 1
----> 1 mys.add(["e", "ff"])

TypeError: unhashable type: 'list'
```

remove element from set

```
[7]: mys.remove("Ahmed")  
     print(mys)
```

```
{0, True, 3234, 3.12, 'added item', 'Mohamed', 'Zeinab', 'iti', ('bash',  
'python')}
```

```
[11]: popped_element=mys.pop()  
      print(mys)  
      print(popped_element)
```

```
{'added item', 'Mohamed', 'Zeinab', 'iti', ('bash', 'python')}  
3.12
```

```
[ ]:
```