



BEGINNER'S
CODE GUIDE



Set in python

unordered | unchangeable | unindexed | duplicates forbidden unordered since no index.

List and Dictionary not allowed since it is changable nesting set i.e set under set is not allowed.

```
a = {"abc", 1, 2.3, True, (1, 23)}
print(a)
{1, 2.3, (1, 23), 'abc'}
print(type(a))
<class 'set'>
```

True & 1 is considered as same value

since 1 & true is considered same value and duplicate not allowed so print only 1 in output

```
a = {1, True}
a
```

{1}

count number of elment using len() length funtion

```
b = {\text{"abc", 2, 4.5}}
len(b)
```

3

set() constructor

```
# alternate way to create SET
myset = set(["a", "b", "c"])
print(myset)
{'b', 'a', 'c'}
```

Adding element to the set

```
myset.add("d")
print(myset)
{'a', 'd', 'b', 'c'}
```

Creating Empty Set

blank { } will create dictionary. so use set() to create empty set

```
ed = {} # empty dictionary

print(ed)
print(type(ed))

{}
<class 'dict'>

es = set() # empty set

print(es)
print(type(es))

set()
<class 'set'>
```

access set values since there is no index

```
a = {"a", "ab", 1}

for x in a:
    print(x)
```

check if item or value is present in set

```
print("ab" in a)
print("cb" in a)
```

True False

Add / remove item in SET

```
a add("xy")
a
{1, 'a', 'ab', 'xy'}
```

update()

```
b = {1,2}
a.update(b)
```

```
print(a)
print(b)
{1, 'xy', 2, 'ab', 'a'}
{1, 2}
```

remove()

```
a.remove('ab') # remove element
a
{1, 2, 'a', 'xy'}
```

pop() will remove item randomly in set

```
a.pop()
a
{2, 'a', 'xy'}
```

clear() will remove all item and return empty set

```
a.clear()
```

a

set()

del statement will delete SET

```
del a
```

Join two set

```
a = {1, 2, 3}
b = {4, 5, 6}

c = a.union(b)
```

{1, 2, 3, 4, 5, 6}

wap to find max and min value

```
x = {1, 2, 3, 4, 5, 6}
print(max(x))
print(min(x))
```

wap to get common value of two sets

```
a = \{10, 20, 30\}
b = \{30, 40, 50\}
print(a.intersection(b))
{30}
```

convert set to list and tuple

```
a = \{10, 20, 30, 40, 50\}
b = list(a)
print(b)
print(type(b))
[50, 20, 40, 10, 30]
<class 'list'>
c = tuple(a)
print(c)
print(type(c))
```

```
(50, 20, 40, 10, 30)
<class 'tuple'>
```