



Set

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Set



Set

- Set is **unordered** collection of unique elements.
- It doesn't take duplicates.
- It is **mutable**, elements can be added or removed from the original set.
- The order of the elements are unpredictable.
- It can contain elements of different types.
- Elements are enclosed in curly braces { }.

Execute the code and observe the output:

```
set_1 = {'admin', 500, 'user', 500, 800}  
print(set_1)
```

for loop with set



for loop with list

- Items in a set cannot be accessed using indexes since the items are unordered.
- We can loop through the set items only using a for loop.

Program:

```
set_1 = {'admin', 500, 'user', 800}  
for item in set_1:  
    print(item)
```

Output:

```
800  
500  
admin  
user
```

Add, Remove, Delete, Clear operations



Add, Remove, Delete, Clear operations

Program:

```
set_1 = {'admin', 500, 'user', 800}  
set_1.add('customer')  
print(set_1)  #after adding customer  
set_1.update('A', 'B', 'C')  
print(set_1)  #after adding the above elements  
set_1.remove('admin')  
print(set_1)  #after removing admin
```


Add, Remove, Delete, Clear operations

Program continued..

```
set_1.clear()  
print(set_1)  #printing empty set  
del set_1    #deleting the set
```

Output:

```
{800, 'customer', 'admin', 'user', 500}  
{800, 'B', 'customer', 500, 'C', 'admin', 'user', 'A'}  
{800, 'B', 'customer', 500, 'C', 'user', 'A'}  
set()
```

in keyword with set



in keyword with set

To determine if a specified item is present in the set use the in keyword:

Program:

```
set_1 = {'admin', 500, 'user', 800}  
if 800 in set_1:  
    print("Present")  
else:  
    print("Not present")
```

Output:

Present



Thank you