

set



Mohammad Tasin (Tasin Coder)

Agenda

- **set**
- **How to create set object**
- **Accessing set elements**
- **Built-in Method**
- **Operators on set**
- **set object method**
- **set Comprehension**

set

- **set is a class**
- **set is mutable**
- **set is not hashable**
- **set is iterable**
- **set is not a sequence**
- **set cannot have duplicate values**
- **Indexing is not applicable to set object**
- **Slicing operator is not applicable on set object**
- **set does not guarantee to store values in the order of insertion**

How to create set object

```
s1 = {10, 20, 30}
```

```
s2 = set() # Empty set object
```

```
s3 = {} # This is a not set object
```

```
s4 = set(10) # Error
```

```
s5 = set([10, 20, 30, 40])
```

Accessing set elements

```
for VariableName in set_object :
```

```
    code
```

```
    code
```


Built-in Methods

- 1. len()** → returns length of specified iterable
- 2. min()** → returns min value element
- 3. max()** → returns max value element
- 4. sum()** → returns sum of elements
- 5. sorted()** → returns a sorted list of elements

Operators on set

- **Concatenation operator**
 - ❖ **set object + set object → Not Supported**
- **Repetition operator**
 - ❖ **set object * int → Not Supported**
- **Comparison operator**
 - ❖ **set object == set object → Supported**
 - ❖ **set object != set object → Supported**
- **Two set objects are equal if their elements are same, doesn't matter the order of elements.**

set object method

- **add()**
- **update()**
- **discard()**
- **remove()**
- **intersection()**
- **union()**
- **clear()**
- **issubset()**
- **issuperset()**
- **pop()**

set comprehension

S1 = { expression for VariableName in object }