setassignment

June 28, 2025

[1]:
```
set
```

[1]:
```
set
```

[ ]:
```
s={}
type(s)
```

[ ]:
```
dict
```

[ ]:
```
s=set()

s={1,2,3,4,5}
s
```

[ ]:
```
{1, 2, 3, 4, 5}
```

[8]:
```
type(s)
```

[8]:
```
set
```

[5]:
```
s1={12.3,11.2,3,'nit'}
s1
```

[5]:
```
{11.2, 12.3, 3, 'nit'}
```

[30]:
```
s2={1,(2,3)}
s2
```

[30]:
```
{(2, 3), 1}
```

[14]:
```
s1.add(120)
s1
```

[14]:
```
{11.2, 12.3, 120, 3, 'nit'}
```

[16]:
```
s1.add(120)
s1
```

[16]:
```
{11.2, 12.3, 120, 3, 'nit'}
```

[17]:
```
s1.remove(120)
s1
```

[17]:
```
{11.2, 12.3, 3, 'nit'}
```

[ ]:
```
s1.discard(11)
```

[19]:
```
s1.remove(11)
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
Cell In[19], line 1
----> 1 s1.remove(11)

KeyError: 11
```

[20]:
```
id(s1),id(s2)
```

[20]:
```
(2017262292320, 2017262295008)
```

[21]:
```
s3=s2
id(s3),id(s2)
```

[21]:
```
(2017262295008, 2017262295008)
```

[32]:
```
s3.clear()
print(s2)
s3=s2.copy()
print(s3)
id(s3),id(s2)
```

```
{(2, 3), 1}
{(2, 3), 1}
```

[32]:
```
(2017277413856, 2017277412960)
```

[31]:
```
s2
```

[31]:
```
{(2, 3), 1}
```

[33]:
```
for i in s1:
    print(i)
```

```
3
11.2
```

```
12.3
nit
```

[34]:
```
for i in enumerate(s1):
    print(i)
```

```
(0, 3)
(1, 11.2)
(2, 12.3)
(3, 'nit')
```

[1]:
```
a = {1,2,3,4,5}
b = {4,5,6,7,8}
c = {8,9,10}
```

[36]:
```
a.union(b)
```

[36]: {1, 2, 3, 4, 5, 6, 7, 8}

[2]:
```
a.difference(b)
```

[2]: {1, 2, 3}

[38]:
```
a|b
```

[38]: {1, 2, 3, 4, 5, 6, 7, 8}

[50]:
```
a-b
```

[50]: {1, 2, 3}

[40]:
```
a|b|c
```

[40]: {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}

[41]:
```
a-b-c
```

[41]: {1, 2, 3}

[3]:
```
a
```

[3]: {1, 2, 3, 4, 5}

[4]:
```
b
```

[4]: {4, 5, 6, 7, 8}

[5]:
```
a.symmetric_difference(b)
```

[5]: {1, 2, 3, 6, 7, 8}

[14]:
```
a
```

[14]: {1, 2, 3, 6, 7, 8}

[13]:
```
a.symmetric_difference_update(b)
print(a)
```

```
{1, 2, 3, 8, 7, 6}
```

[10]:
```
a
```

[10]: {1, 2, 3, 4, 5}

[16]:
```
print(b),print(c)
```

```
{4, 5, 6, 7, 8}
{8, 9, 10}
```

[16]: (None, None)

[15]:
```
b^c
```

[15]: {4, 5, 6, 7, 9, 10}

[17]:
```
b&c
```

[17]: {8}

[18]:
```
b.intersection(c)
```

[18]: {8}

[19]:
```
b.issubset(c)
```

[19]: False

[43]:
```
a={4,5,6}
c={4,5}
```

[45]:
```
a.issuperset(c)
```

[45]: True

[46]:
```
c.issuperset(a)
```

[46]: False

[29]:
```
d={1,2}
e={0,9}
a.issuperset(d)

d.isdisjoint(a)
e.isdisjoint(d)
```

[29]:
```
True
```