Lecture 21

Sets parts 2

True and 1 are considered as same value

In [1]:
```
a = {'animals',"ball",25,24,3.6,5.9,1,56,True}
print(a)
```

```
{1, 3.6, 5.9, 'ball', 'animals', 24, 25, 56}
```

In [2]:
```
a = {'animals',"ball",25,24,3.6,5.9,1,56,True,0,23,False}
print(a)
```

```
{0, 1, 3.6, 5.9, 'ball', 'animals', 23, 24, 25, 56}
```

In [3]:
```
a = {'animals',"ball",25,24,3.6,5.9,56,True}
print(a)
```

```
{True, 3.6, 'ball', 5.9, 'animals', 24, 25, 56}
```

In [4]:
```
a = {'animals',"ball",25,24,3.6,5.9,1,56,True,23,False}
print(a)
```

```
{False, 1, 3.6, 5.9, 'ball', 'animals', 23, 24, 25, 56}
```

Nested is not a property of the set

In [5]:
```
a = {{11,12,13}, {4,5,6}}
print(a)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[5], line 1
----> 1 a = {{11,12,13}, {4,5,6}}
      2 print(a)

TypeError: unhashable type: 'set'
```

check if item is present in the set or not

In [6]:
```
a = {"data","swati","python"}
print("swati" in a)
```

```
True
```

In [9]:
```
b = {"nishant", "ayush", "python",2,5,95,29,5}
print(29 in b)
```

```
True
```

get the length of the set

In [11]:
```
a = {"animals","bat","cat",1,85,496,5,896,59,6596,59,6596496}
print(len(a))
```

```
11
```

Add items

Once a set is created, you cannot chnage the items but youy can add the new items

In [12]:
```
a = {"a1","b1","c1",1,2,3}
a.add("d1")
print(a)
```

```
{1, 2, 3, 'c1', 'a1', 'b1', 'd1'}
```

update method

In [13]:
```
x ={"data","python","code"}
y = {10,20,30,40,50,60,70}

x.update(y)
print(x)
```

```
{70, 40, 10, 'data', 50, 20, 'python', 'code', 60, 30}
```

rEMOVE ITEMS FROM THE SET

In [14]:
```
n = {70,40,10,"code","data","science",45,5,523,2.3,5.9}
n.remove(40)
print(n)
```

```
{2.3, 5, 70, 'science', 5.9, 10, 523, 45, 'data', 'code'}
```

In [15]:
```
n = {70,40,10,"code","data","science",45,5,523,2.3,5.9}
n.remove("code")
print(n)
```

```
{2.3, 5, 70, 'science', 40, 5.9, 10, 523, 45, 'data'}
```

In [16]:
```
n = {70,40,10,"code","data","science",45,5,523,2.3,5.9}
n.remove(2.3)
print(n)
```

```
{5, 70, 'science', 40, 5.9, 10, 523, 45, 'data', 'code'}
```

pop method

In [18]:
```
a = {15,489,4,96,5,968,59,85985,85,895,9,5,9}
c = a.pop()
print(a)
print(c)
```

```
{85985, 4, 5, 968, 489, 9, 15, 85, 59, 895}
96
```

In [20]:
```
x = {'code',"apple","swati",569,2,9,52,9,5,9,5,9}
y = x.pop()
print(y)
print(x)
```

```
2
{'swati', 5, 9, 52, 'apple', 569, 'code'}
```

In [21]:
```
x = {'code',"apple","swati",569,2,9,52,9,5,9,5,9}
y = x.pop()
print(y)
print(x)
```

```
2
{'swati', 5, 9, 52, 'apple', 569, 'code'}
```

clear method

In [22]:
```
x = {'code',"apple","swati",569,2,9,52,9,5,9,5,9}

x.clear()
print(x)
```

```
set()
```

In [25]:
```
x = {'code',"apple","swati",569,2,9,52,9,5,9,5,9}

del x

print(x)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[25], line 5
      1 x = {'code',"apple","swati",569,2,9,52,9,5,9,5,9}
      3 del x
----> 5 print(x)

NameError: name 'x' is not defined
```

In [ ]:
```

```