

```
In [1]: # Sets
# A python sets rejects any duplicates
# a = {} Curley brackets used to denote cells
# a = set() can also be used
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In [2]: a = set() # this creates a blank set a
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```
In [3]: a.add(1) # this puts 1 into the set
a.add(2) # this puts 2 into the set
print(a)
```

```
{1, 2}
```

```
In [4]: a.add(2) #try to place another 2
print(a)
```

```
{1, 2}
```

```
In [6]: # to iterate values in each set
for x in a:
    print(x)
```

```
1
2
```

```
In [7]: # Quiz- Removing duplicates from a List
```

```
b = [1, 1, 2, 3, 4, 4, 5]
c = set()
for x in b:
    c.add(x)
print(c)
```

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

```
In [8]: # Creating a new List from values of the above set
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```
d = []
for x in c:
    d.append(x)
print(d)
```

```
[1, 2, 3, 4, 5]
```

```
In [9]: e = {2, 3, 5}
print(e)
```

```
{2, 3, 5}
```

```
In [11]: f = set()
f.add('banana')
f.add('-1')
f.add('apple')
f.add('banana')
print(f)
```

```
{'banana', '-1', 'apple'}
```

```
In [16]: # Quiz- Find the sum of the unique elements in the list
```

```
a = [1, 3, 4, 1, 3]
```

```
t = 0
s = set()
for x in a:
    s.add(x)
print("s = ", s)
```

```
for x in s:
    t += x
print(t)
```

```
s = {1, 3, 4}
8
```

```
In [13]: print(sum(s))
```

```
8
```

```
In [14]: print(sum(a))
```

```
12
```

```
In [ ]:
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