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In [1]: #Set:- A set is an unordered and an unindexed collection of elements enclosed within {}.
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In [2]: #A. Creating a set:
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In [3]: #Example-01:
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```
In [4]: set1 = {10,True,'Home',9.34,"A",'d','Close it.',9+8j}
```

```
In [5]: set1
```

```
Out[5]: {(9+8j), 10, 9.34, 'A', 'Close it.', 'Home', True, 'd'}
```

```
In [6]: #Example-02:
```

```
In [7]: set2 = {100,200,300,400,500}  
set2
```

```
Out[7]: {100, 200, 300, 400, 500}
```

```
In [8]: #Example-03:
```

```
In [9]: set3 = {'A',"B","C","D",'X'}
```

```
In [10]: set3
```

```
Out[10]: {'A', 'B', 'C', 'D', 'X'}
```

```
In [11]: #B.Duplicates are not allowed in a set:
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In [12]: #Example-01:
```

```
In [13]: s1 = {'Apple', "Mango", "Cat", "Mango", "Mango", "Apple", 'Cat', 'Cat'}  
s1
```

```
Out[13]: {'Apple', 'Cat', 'Mango'}
```

```
In [14]: #Example-02:
```

```
In [15]: s2 = {500,500,500,150,150,150,150,290,290,300,290,250,400,290,300,400,1  
50}  
s2
```

```
Out[15]: {150, 250, 290, 300, 400, 500}
```

```
In [16]: #Example-03:
```

```
In [17]: s3 = {True, 45, True, False, 78+90j, 78+90j, 45, 45, 30.98, 30.98, "Cow", 'Cow',  
'Sun', 'Cow', 'Cow', 'Cow', 'Sun'}  
s3
```

```
Out[17]: {(78+90j), 30.98, 45, 'Cow', False, 'Sun', True}
```

```
In [18]: #Note:No elements in set can be extracted because the elements do not h  
ave fixed index value.
```