LIST

```
>>> lst=['prasun','30','2020'];
>>> lst
['prasun', '30', '2020']


>>> lst.append('westbengal');
>>> lst
['prasun', '30', '2020', 'westbengal']


>>> lst.remove('30');
>>> lst
['prasun', '2020', 'westbengal']

>>> lst=['prasun','hannure','westbengal','30'];
>>> lst
['prasun', 'hannure', 'westbengal', '30']


>>> a=lst.copy();
>>> a
['prasun', 'hannure', 'westbengal', '30']


>>> lst.count('prasun');
1

>>> lst.pop(0);
'prasun'


>>> lst1=[1,2,3,4];
>>> lst
['hannure', 'westbengal', '30']

>>> lst1
[1, 2, 3, 4]

>>> lst.extend(lst1);
>>> lst
['hannure', 'westbengal', '30', 1, 2, 3, 4]



>>> #DICTIONARY


>>> dit={"name":"prasun","age":"38","city":"westbengal"}
>>> dit
{'name': 'prasun', 'age': '38', 'city': 'westbengal'}


>>> dit.update({"city":"westbengal"})
>>> dit
{'name': 'prasun', 'age': '38', 'city': 'westbengal'}


>>> dit.keys();
dict_keys(['name', 'age', 'city'])


>>> dit.clear();
>>> dit
{}
```

PRASUNDAY2ASS

```
>>> dit={"name":"prasun","age":"38","city":"westbengal"}
>>> dit
{'name': 'prasun', 'age': '38', 'city': 'westbengal'}

>>> x=dit.copy();
>>> x
{'name': 'prasun', 'age': '38', 'city': 'westbengal'}


>>> y=1
>>> y
1

>>> dit1=dit.fromkeys(x,y);
>>> dit1
{'name': 1, 'age': 1, 'city': 1}


>>> dit.values();
dict_values(['prasun', '38', 'westbengal'])


>>> dit.get("age");
'18'


>>> dit.setdefault("name","prasun");
'prasun'


>>> dit.setdefault("age","38");
'38'



>>> #SET

>>> set={"python","learn",2,4,6,8}
>>> set
{2, 4, 6, 8, 'python', 'learn'}


>>> set.add("learnwithsai");
>>> set
{2, 4, 6 ,8 , 'python', 'learnwithsai', 'learn'}


>>> set.add('learnwithsai');
>>> set
{2, 4, 6 ,8 , 'python', 'learnwithsai', 'learn'}


>>> set.clear();
>>> set
set()


>>> set={"apple","healthy","50"};
>>> set
{'healthy', '50', 'apple'}

>>> set.copy();
{'healthy', '50', 'apple'}


>>> a={"stay","home","staySafe","COVID=19"};
>>> a
{'stay', 'COVID=19', 'staySafe', 'home'}
```
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```
>>> b=set.copy();
>>> b
{'healthy', '50', 'apple'}


>>> c=a.difference(b);
>>> c
{'stay', 'COVID=19', 'staySafe', 'home'}


>>> a.difference_update(b);
>>> a
{'stay', 'COVID=19', 'staySafe', 'home'}


>>> x={1,2,3,4,5}
>>> y={4,5,6,7}
>>> x
{1, 2, 3, 4, 5}
>>> y
{4, 5, 6, 7}


>>> z=x.intersection(y)
>>> z
{4, 5}


>>> x.intersection_update(y)
>>> x
{4, 5}
>>> z=x.isdisjoint(y);
>>> z
False

>>> z=x.isdisjoint(y)
>>> z
False


>>> z=x.issubset(y)
>>> z
True


>>> z=x.issuperset(y);
>>> z
False


>>> x.pop();
4


>>> y.pop()
4


>>> y
{5, 6, 7}

>>> z=x.symmetric_difference(y);
>>> z
{5, 6, 7}
```

```
>>> x.symmetric_difference_update(y)
>>> x
{5, 6, 7}


>>> z=x.union(y)
>>> z
{5, 6, 7}


>>> #STRING


>>> str1='Python';
>>> str1
'Python'

>>> str2='programming';
>>> str2;
'programming'

>>> str1.capitalize();
'Python'

>>> str2.capitalize();
'Programming'

>>> str1.casefold();
'python'

>>> str2.casefold();
'programming'

>>> str1.center(12);
'   Python   '
>>>

>>> str2.center(15);
'  programming  '

>>> str1.count("0");
0
>>> str1.encode();
b'Python'
>>> str2.encode();
b'programming'
>>> str1.endswith("!");
False
```