In [1]:

```
#Dictionary
```

In [2]:

```
#dictionary = {<key>: <value>,
#               <key>: <value>,}
```

In [3]:

```
a={"a":"apple","b":"ball","c":"cat"}
```

In [9]:

```
print(a['a'])
print(a['b'])
#Print all Values
print(a.values())
```

```
apple
ball
dict_values(['apple', 'ball', 'cat'])
```

In [11]:

```
#Assigning Value
a['d']='dog'
a
```

Out[11]:

```
{'a': 'apple', 'b': 'ball', 'c': 'cat', 'd': 'dog'}
```

In [19]:

```
#Update
a['a']="ant"
a
```

Out[19]:

```
{'a': 'ant', 'b': 'ball', 'c': 'cat', 'd': 'dog'}
```

In [20]:

```
#del
del a['a']
a
```

Out[20]:

```
{'b': 'ball', 'c': 'cat', 'd': 'dog'}
```

In [23]:

```
#Sets
```

In [34]:

```
csk={"dhoni","bravo","jadeja"}
```

In [39]:

```
csk.add("raina")
csk
```

Out[39]:

```
{'bravo', 'dhoni', 'jadeja', 'raina'}
```

In [46]:

```
#Removing
csk.remove("raina")
```

In [48]:

```
csk
```

Out[48]:

```
{'bravo', 'dhoni', 'jadeja'}
```

In [50]:

```
#Discard
csk.discard('bravo')
```

In [51]:

```
csk
```

Out[51]:

```
{'dhoni', 'jadeja'}
```

In [52]:

```
###Excercise
```

In [53]:

```
#1) Write a Python script to merge two Python dictionaries
```

In [54]:

```
dict1={'a':'apple','b':'ball','c':'cat'}
dict2={'d':'dog','e':'egg','f':'fish'}
```

In [62]:

```
dict3=dict1.update(dict2)
```

In [64]:

```
print(dict1)
```

```
{'a': 'apple', 'b': 'ball', 'c': 'cat', 'd': 'dog', 'e': 'egg', 'f': 'fish'}
```

In [ ]:

```

```

In [ ]:

```
#2) Write a Python program to remove a key from a dictionary
```

In [65]:

```
dict1
```

Out[65]:

```
{'a': 'apple', 'b': 'ball', 'c': 'cat', 'd': 'dog', 'e': 'egg', 'f': 'fish'}
```

In [66]:

```
del dict1['a']
```

In [67]:

```
dict1
```

Out[67]:

```
{'b': 'ball', 'c': 'cat', 'd': 'dog', 'e': 'egg', 'f': 'fish'}
```

In [ ]:

```

```

In [68]:

```
#3)Write a Python program to map two lists into a dictionary
```

In [73]:

```
a=[1,2,3,4,5]
b=[6,7,8,9,10]
c=[1,2,3]
d=[100,200,300]
```

In [74]:

```
l1=dict(zip(a,b))
l2=dict(zip(c,d))
```

In [76]:

```
print(l1)
print(l2)
```

```
{1: 6, 2: 7, 3: 8, 4: 9, 5: 10}
{1: 100, 2: 200, 3: 300}
```

In [ ]:

```

```

In [78]:

```
#4) Write a Python program to find the length of a set
```

In [79]:

```
set1={'apple','orange','grapes'}
```

In [82]:

```
print(len(set1))
```

```
3
```

In [ ]:

```

```

In [84]:

```
#5) Write a Python program to remove the intersection of a 2nd set from the 1st set
```

In [91]:

```
set1={'apple','orange','grapes'}
set2={'apple','orange','mango'}
result= set2-set1
```

In [92]:

```
result
```

Out[92]:

```
{'mango'}
```