Dictionaries are unordered mappings for storing objects. Dictionaries use a key-value pairing instead.

This key-value pair allows users to quickly grab objects without needing to know an index location.

Dictionareis use curly braces and colons to signify the keys and their associated values.

Syntax -- {'key1':'value1','key2':'value2'}

In [1]:
```
my_dict = {'key1':'value1','key2':'value2'}
```

In [2]:
```
my_dict
```

Out[2]:
```
{'key1': 'value1', 'key2': 'value2'}
```

In [3]:
```
my_dict['key1']
```

Out[3]:
```
'value1'
```

In [4]:
```
prices_lookup = {'mango':200,'orange':300,'apple':400}
```

In [5]:
```
prices_lookup
```

Out[5]:
```
{'mango': 200, 'orange': 300, 'apple': 400}
```

In [6]:
```
prices_lookup['orange']
```

Out[6]:
```
300
```

In [7]:
```
d = {'k1':123,'k2':[4,7,5],'k3':{'insidekey':100}}
```

In [8]:
```
d['k2']
```

Out[8]:
```
[4, 7, 5]
```

In [11]:
```
d['k3']
```

Out[11]:
```
{'insidekey': 100}
```

In [12]:
```
d['k3']['insidekey']
```

Out[12]:
```
100
```

In [13]:
```
d
```

Out[13]:
```
{'k1': 123, 'k2': [4, 7, 5], 'k3': {'insidekey': 100}}
```

In [14]:
```
d['k2'][1]
```

Out[14]:
```
7
```

In [15]:
```
d = {'key1':['a','b','c']}
```

In [16]:
```
d
```

Out[16]:
```
{'key1': ['a', 'b', 'c']}
```

In [17]:
```
mylist = d['key1']
```

In [18]:
```
mylist
```

Out[18]:
```
['a', 'b', 'c']
```

In [19]:
```
letter = mylist[2]
```

In [20]:
```
letter
```

Out[20]:
```
'c'
```

In [21]:
```
letter.upper()
```

Out[21]:
```
'C'
```

In [22]:
```
d
```

Out[22]:
```
{'key1': ['a', 'b', 'c']}
```

In [24]:
```
d['key1'][2]
```

Out[24]:
```
'c'
```

In [25]:
```
d['key1'][2].upper()
```

Out[25]:
```
'C'
```

In [33]:
```
d = {'k1':100,'k2':200}
```

In [34]:
```
d
```

Out[34]:
```
{'k1': 100, 'k2': 200}
```

In [35]:
```
d['k3'] = 300
```

In [36]:
```
d
```

Out[36]:
```
{'k1': 100, 'k2': 200, 'k3': 300}
```

In [37]:
```
d['k1'] = 'new value'
```

In [38]:
```
d
```

Out[38]:
```
{'k1': 'new value', 'k2': 200, 'k3': 300}
```

In [39]:
```
d = {'k1': 100, 'k2': 200, 'k3': 300}
```

In [40]:
```
d.keys()
```

Out[40]:
```
dict_keys(['k1', 'k2', 'k3'])
```

In [41]:
```
d.values()
```

Out[41]:
```
dict_values([100, 200, 300])
```

In [42]:
```
d.items()
```

Out[42]:
```
dict_items([('k1', 100), ('k2', 200), ('k3', 300)])
```

In [ ]:
```

```