Dictionary in Python

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In [41]:
```
D1 = dict()
```

In [42]:
```
type(D1)
```

Out[42]:
```
dict
```

In [43]:
```
D2 = {}
```

In [44]:
```
type(D2)
```

Out[44]:
```
dict
```

In [45]:
```
Temp = {'Vellore':32.0, 'Chennai':33, 'Hydrabad':36.8, 'Maduari':31.5}
```

In [46]:
```
Interests = {'Place' : 'Pondy', 'Food' : 'Fish', 'Mucisian' : 'ARR'}
```

In [47]:
```
Temp['Hydrabad']
```

Out[47]:
```
36.8
```

In [48]:
```
Temp['Delhi']
```

```
---------------------------------------------------------------------
------
KeyError                                  Traceback (most recent call
last)
<ipython-input-48-72dbb8d61053> in <module>
----> 1 Temp['Delhi']

KeyError: 'Delhi'
```

In [49]:
```
Interests['Mucisian']
```

Out[49]:
```
'ARR'
```

In [50]:
```
del Temp['Hydrabad']
```

In [51]:
```
Temp
```

Out[51]:
```
{'Vellore': 32.0, 'Chennai': 33, 'Maduari': 31.5}
```

In [52]:
```
del Temp['Delhi']
```

```
---------------------------------------------------------------------
------
KeyError                                  Traceback (most recent call
last)
<ipython-input-52-4a421cd382c7> in <module>
----> 1 del Temp['Delhi']

KeyError: 'Delhi'
```

In [53]:
```
len(Temp)
```

Out[53]:
```
3
```

In [54]:
```
len(Interests)
```

Out[54]:
```
3
```

In [55]:
```
sorted(Temp)
```

Out[55]:
```
['Chennai', 'Maduari', 'Vellore']
```

In [56]:
```
Temp.values()
```

Out[56]:
```
dict_values([32.0, 33, 31.5])
```

In [57]:
```
Temp.items()
```

Out[57]:
```
dict_items([('Vellore', 32.0), ('Chennai', 33), ('Maduari', 31.5)])
```

In [58]:
```
Temp.keys()
```

Out[58]:
```
dict_keys(['Vellore', 'Chennai', 'Maduari'])
```

In [59]:
```
Temp['Chennai'] = 38.0
```

In [60]:
```
Temp
```

Out[60]:
```
{'Vellore': 32.0, 'Chennai': 38.0, 'Maduari': 31.5}
```

In [61]:
```
Temp['Mumbai'] = 32.4
```

In [62]:
```
Temp
```

Out[62]:
```
{'Vellore': 32.0, 'Chennai': 38.0, 'Maduari': 31.5, 'Mumbai': 32.4}
```

In [63]:
```
Temp['Mumbai'] = 34.5
```

In [64]:
```
Temp
```

Out[64]:
```
{'Vellore': 32.0, 'Chennai': 38.0, 'Maduari': 31.5, 'Mumbai': 34.5}
```

In [ ]:
```
len(Temp)
```

In [65]:
```
for i in Temp.items():
    print (i)
```

```
('Vellore', 32.0)
('Chennai', 38.0)
('Maduari', 31.5)
('Mumbai', 34.5)
```

In [66]:
```
Course = dict(Fall_24='Python', Win_24='NLP', Fall_23='NIS',Win_23='ML'
```

In [67]:
```
type(Course)
```

Out[67]:
```
dict
```

In [68]:
```
Course
```

Out[68]:
```
{'Fall_24': 'Python', 'Win_24': 'NLP', 'Fall_23': 'NIS', 'Win_23': 'M
L'}
```

In [69]:
```
Num = {i:i**2 for i in range(1,11) if i % 2 == 0}
```

In [70]:
```
Num
```

Out[70]:
```
{2: 4, 4: 16, 6: 36, 8: 64, 10: 100}
```

In [71]:
```
Stu_Details = {'24BIT0002': ['Achu','26-May','A+'], '24BIT0003': ['Nith
```

In [ ]:
```

```

In [72]:
```
Stu_Details
```

Out[72]:
```
{'24BIT0002': ['Achu', '26-May', 'A+'],
 '24BIT0003': ['Nithik', '06-May', 'O-']}
```

In [ ]:
```
Stu_Details['24BIT0003']
```

In [ ]:
```
Stu_Details['24BIT0003'][0]
```

In [73]:
```
Stu_Details['24BIT0002']= ['Anu','26-May','A+']
```

In [74]:
```
Stu_Details
```

Out[74]:
```
{'24BIT0002': ['Anu', '26-May', 'A+'], '24BIT0003': ['Nithik', '06-May', 'O-']}
```

In [ ]:
```
for k, v in Temp.items():
    print (k, v)
```

In [75]:
```
for k, v in Stu_Details.items():
    print (k, v)
```

```
24BIT0002 ['Anu', '26-May', 'A+']
24BIT0003 ['Nithik', '06-May', 'O-']
```

In [ ]:
```

```