Accessing Elements - dict

Let us see how we can access elements from the dict using Python as programming language.

- We can access a value of a particular element in dict by passing key d[key]. If the key does not exists, it will throw KeyError.
- get also can be used to access a value of particular element in dict by passing key as argument. However, if key does not exists, it will return None.
- We can also pass a default value to get.
- We can get all the keys in the form of set like object by using keys and all the values in the form of list like object by using values.
- We can also use items to convert a dict into a set like object with pairs. Each element (which is a pair) in the set like object will be a tuple.
- Let us see few examples.

```
d = {'id': 1, 'first_name': 'Scott', 'last_name': 'Tiger', 'amount': 1000.0}
d['id']
 1
d['first_name']
  'Scott'
d['commission_pct'] # throws key error
                                            Traceback (most recent call last)
 <ipython-input-5-583ad3d358bd> in <module>
  ----> 1 d['commission_pct'] # throws key error
 KeyError: 'commission_pct'
d.get?
 Docstring: D.get(k[,d]) -> D[k] if k in D, else d. d defaults to None.
            builtin_function_or_method
 Type:
d.get('first_name')
  'Scott'
d.get('commission_pct') # Returns None
d.get('first_name', 'Some First Name')
  'Scott'
d.get('commission_pct', 0)
 0
d.keys?
 Docstring: D.keys() -> a set-like object providing a view on D's keys
            builtin_function_or_method
```

```
d.keys()
 dict_keys(['id', 'first_name', 'last_name', 'amount'])
d.values?
 Docstring: D.values() -> an object providing a view on D's values
            builtin_function_or_method
d.values()
 dict_values([1, 'Scott', 'Tiger', 1000.0])
d.items?
 Docstring: D.items() -> a set-like object providing a view on D's items
 Type:
            builtin_function_or_method
d.items()
 dict_items([('id', 1), ('first_name', 'Scott'), ('last_name', 'Tiger'), ('amount', 1000.0)])
list(d.items())[0]
 ('id', 1)
list(d.items())[1]
 ('first_name', 'Scott')
type(list(d.items())[1])
 tuple
```

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