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In [1]: #dictionary a changeable, unordered collection of unique key:value and its fast because of hashing
         capitals = {'KSA':'Riyadh'
                      'UAE':'Abu dhabi',
                     'KWT':'Kueait',
                     'EGY':'Cairo'
         print(capitals)
         {'KSA': 'Riyadh', 'UAE': 'Abu dhabi', 'KWT': 'Kueait', 'EGY': 'Cairo'}
 In [2]: #there is no index instead we use the key
         print(capitals['KSA'])
         Riyadh
 In [3]: print(capitals['KSa'])
                                                   Traceback (most recent call last)
         KevError
         <ipython-input-3-8ff9295f182c> in <module>
         ----> 1 print(capitals['KSa'])
         KeyError: 'KSa'
 In [4]: #the key must be the same
         print(capitals['KSA'])
         print(capitals['UAE'])
         print(capitals['KWT'])
         print(capitals['EGY'])
         Riyadh
         Abu dhabi
         Kueait
         Cairo
 In [5]: #the get func
         print(capitals.get('KSA'))
         Riyadh
 In [6]: #the keys func that print all the keys in the dictionary
         print(capitals.keys())
         dict_keys(['KSA', 'UAE', 'KWT', 'EGY'])
 In [7]: #the values func
         print(capitals.values())
         dict values(['Riyadh', 'Abu dhabi', 'Kueait', 'Cairo'])
In [10]: #print all element in dictionary
         for key,value in capitals.items():
             print(key,value)
         KSA Riyadh
         UAE Abu dhabi
         KWT Kueait
         EGY Cairo
In [11]: #the update func
         capitals.update({'QAT':'Doha'})
         print(capitals)
         {'KSA': 'Riyadh', 'UAE': 'Abu dhabi', 'KWT': 'Kueait', 'EGY': 'Cairo', 'QAT': 'Doha'}
In [13]: capitals.update({'KSA':'Diriyah'})
         print(capitals)
         {'KSA': 'Diriyah', 'UAE': 'Abu dhabi', 'KWT': 'Kueait', 'EGY': 'Cairo', 'QAT': 'Doha'}
In [15]: #the pop func
         capitals.pop('KWT')
         print(capitals)
         {'KSA': 'Diriyah', 'UAE': 'Abu dhabi', 'EGY': 'Cairo', 'QAT': 'Doha'}
In [16]: #the clear func
         capitals.clear()
         print(capitals)
         {}
 In [ ]:
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