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Dictionaries in Python

```
In [1]:
         x={'Name': ['Amit', 'Sumit', 'Ramit'], 'Score': [12,14,18], 'Roll': [123,321,411]} # Creating
In [2]:
Out[2]: {'Name': ['Amit', 'Sumit', 'Ramit'],
          'Score': [12, 14, 18],
          'Roll': [123, 321, 411]}
In [3]:
         for i in range(len(x)):
              print(x.get('Name')[i])
              print(x.get('Score')[i])
              print(x.get('Roll')[i])
              print('\n')
         Amit
         12
         123
         Sumit
         14
         321
         Ramit
         18
         411
In [4]:
          len(x)
Out[4]: 3
In [5]:
          x.values
         <function dict.values>
In [6]:
         x.values()
Out[6]: dict_values([['Amit', 'Sumit', 'Ramit'], [12, 14, 18], [123, 321, 411]])
In [7]:
         x.popitem()
Out[7]: ('Roll', [123, 321, 411])
In [8]:
         x.keys()
```

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Out[8]: dict_keys(['Name', 'Score'])
 In [9]:
          x.popitem()
Out[9]: ('Score', [12, 14, 18])
In [10]:
Out[10]: {'Name': ['Amit', 'Sumit', 'Ramit']}
In [11]:
          x.pop('Name')
Out[11]: ['Amit', 'Sumit', 'Ramit']
In [12]:
Out[12]: {}
In [13]:
          x.values()
Out[13]: dict_values([])
In [14]:
          x['Name']=['Amit','Sumit','Ramit'] # Update List via Assignment Operator
In [15]:
Out[15]: {'Name': ['Amit', 'Sumit', 'Ramit']}
In [16]:
          x.update({'Rank':[4,6,1]}) # Update List
In [17]:
Out[17]: {'Name': ['Amit', 'Sumit', 'Ramit'], 'Rank': [4, 6, 1]}
In [18]:
          x.values() # Print Dictionary Values
Out[18]: dict_values([['Amit', 'Sumit', 'Ramit'], [4, 6, 1]])
In [19]:
          x.keys() # Printing List Keys
Out[19]: dict_keys(['Name', 'Rank'])
```

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```
In [20]:
          x.items() # Printing List Items
Out[20]: dict_items([('Name', ['Amit', 'Sumit', 'Ramit']), ('Rank', [4, 6, 1])])
In [21]:
          # List for Dictionary Keys
          y=[]
          for y in x:
              y=x.keys()
          print(y)
         dict_keys(['Name', 'Rank'])
In [22]:
          # List for Dictionary Values
          z=[]
          for y in x:
              z=x.values()
          print(z)
         dict_values([['Amit', 'Sumit', 'Ramit'], [4, 6, 1]])
In [23]:
Out[23]: dict_values([['Amit', 'Sumit', 'Ramit'], [4, 6, 1]])
In [24]:
          x.values() # Print Values of Dictionaries
Out[24]: dict_values([['Amit', 'Sumit', 'Ramit'], [4, 6, 1]])
In [25]:
          x={x:x^2 for x in range(6)} # Dictionary Comprehension
In [26]:
Out[26]: {0: 2, 1: 3, 2: 0, 3: 1, 4: 6, 5: 7}
```