Dictionary Data Type

```
[3]:  #1.Dictionary data type can store more than one element/values
      #2.Dictionary data can can hold mutliple datatypes(string, int, float)
      #3.Dictonary data type is mutable datatype (values can be modified/changed)
      #3.Dictionary data type is enclosed {key:value}
```

```
[2]:  a = {"name":"shekar","Age":36,"place":"Bangalore", "Marks":440}
```

```
[4]:  type(a)
```

```
[4]:  dict
```

```
[24]:  a
```

```
[24]:  {'name': 'shekar',
        'Age': 36,
        'place': 'Bangalore',
        'Marks': 440,
        'state': 'Karnataka'}
```

```
[8]:  b={"name":["shekar","devadatta","Rohit","Ashish"],"Age":[36,25,28,23],"place":["Bangalore","Mysore","Ahamedabad","Pune"], "Marks":[440,460,480,430]}
```

```
[10]:  b
```

```
[10]:  {'name': ['shekar', 'devadatta', 'Rohit', 'Ashish'],
        'Age': [36, 25, 28, 23],
        'place': ['Bangalore', 'Mysore', 'Ahamedabad', 'Pune'],
        'Marks': [440, 460, 480, 430]}
```

```
[12]:  b.keys()
```

```
[12]:  dict_keys(['name', 'Age', 'place', 'Marks'])
```

```
[14]:  b.values()
```

```
[14]:  dict_values([['shekar', 'devadatta', 'Rohit', 'Ashish'], [36, 25, 28, 23], ['Bangalore', 'Mysore', 'Ahamedabad', 'Pune'], [440, 460, 480, 430]])
```

```
[16]:  b.items()
```

```
[16]:  dict_items([('name', ['shekar', 'devadatta', 'Rohit', 'Ashish']), ('Age', [36, 25, 28, 23]), ('place', ['Bangalore', 'Mysore', 'Ahamedabad', 'Pune']), ('Ma
       rks', [440, 460, 480, 430])])
```

```
[18]:  b["place"]
```

```
[18]:  ['Bangalore', 'Mysore', 'Ahamedabad', 'Pune']
```

```
[ ]:  a["name"]
```

```
[26]:  a
```

```
[26]:  {'name': 'shekar',
        'Age': 36,
        'place': 'Bangalore',
        'Marks': 440,
        'state': 'Karnataka'}
```

```
[28]:  a["percent"]=92.7
```

```
[30]:  a
```

```
[30]:  {'name': 'shekar',
        'Age': 36,
        'place': 'Bangalore',
        'Marks': 440,
        'state': 'Karnataka',
        'percent': 92.7}
```

```
[34]:  a["name"]="chandru"
```

```
[36]:  a
```

```
[36]:  {'name': 'chandru',
        'Age': 36,
        'place': 'Bangalore',
        'Marks': 440,
        'state': 'Karnataka',
        'percent': 92.7}
```

```
[42]:  a.pop("Age")
```

```
[42]:  36
```

```
[44]:  a
```

```
[44]:  {'name': 'chandru',
        'place': 'Bangalore',
        'Marks': 440,
        'state': 'Karnataka',
        'percent': 92.7}
```

```
[46]:  del a['percent']
```

```
[48]:  a
```

```
[48]:  {'name': 'chandru', 'place': 'Bangalore', 'Marks': 440, 'state': 'Karnataka'}
```

```
[50]:  a.clear()
```

```
[52]:  a
```

```
[52]:  {}
```

```
[54]:  a.update({"name":"Ravi"})
```

```
[56]: a
```

```
[56]: {'name': 'Ravi'}
```

```
[58]: a["place"]="Bangalore"
```

```
[60]: a
```

```
[60]: {'name': 'Ravi', 'place': 'Bangalore'}
```

```
[ ]:
```