



Dictionary Data Structure

We can use List, Tuple and Set to represent a group of individual objects as a single entity.

If we want to represent a group of objects as key-value pairs then we should go for Dictionary.

Eg:

rollno----name
phone number--address
ipaddress---domain name

Duplicate keys are not allowed but values can be duplicated.

Heterogeneous objects are allowed for both key and values.

insertion order is not preserved

Dictionaries are mutable

Dictionaries are dynamic

indexing and slicing concepts are not applicable

Note: In C++ and Java Dictionaries are known as "Map" where as in Perl and Ruby it is known as "Hash"

How to create Dictionary?

```
d={} or d=dict()
```

we are creating empty dictionary. We can add entries as follows

```
d[100]="durga"  
d[200]="ravi"  
d[300]="shiva"  
print(d) #{100: 'durga', 200: 'ravi', 300: 'shiva'}
```

If we know data in advance then we can create dictionary as follows

```
d={100:'durga', 200:'ravi', 300:'shiva'}
```

```
d={key:value, key:value}
```