dict



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Agenda

- > dict
- How to create dict object
- Accessing dict elements
- How to edit dict element
- Built-in Methods
- Operators on dict
- dict object methods
- dict Comprehension

dict

- dict is a class
- dict is mutable
- dict is not hashable
- dict is iterable
- dict is not a sequence
- Dict cannot have duplicate keys (Not Data Value)
- Indexing is not applicable to dict object
- Slicing operator is not applicable dict elements are pair of key value and data – value
- One dict element is { Key : Data }

How to create dict object

- 101

- 102

- 103

- All duct objects are Key-value
 RollNo
 - an add objects are reg value Rolling
 - D = {} → Empty dict object

& Data-value

- Student Name
 - TasiNCoder
 - Rahul
 - Raja

- D {} / Lilipty dict object
- D1 = {101 : 'Tasin', 102 : 'Rahul', 103 : 'Raja' } → dict object
- D2 = dict(a = 10, b = 20)

Key-value Data-value

Dict can store heterogeneous Key-value & Data-value

Accessing dict elements

- 1. print(dict_object)
- 2. Key-value > print(d1[101], d1[102], d1[103])
- 3. Loops
 - for _key in d1:
 print(_key) # print only keys
 print(d1[_key]) # print only values
 print(_key, d1[_key]) # print keys & values

How to edit dict element

- Editing dict element means you want to change
 Data-value of the element and not the Key-value
 - dict_object[key] = New Data

How to add new element in the dict object

dict_object[New key-value] = Data-value

Built-in Methods

- 1. len() → returns length of specified iterable
- 2. min() \rightarrow returns min value element
- 3. max() → returns max value element
- 4. sum() → returns sum of elements
- 5. sorted() → returns a sorted list of elements

Operators on dict

- Concatenation operator
 - dict (+, -) dict → Not Supported
- Repetition operator
 - dict * 5 → Not Supported
- Comparison operator
 - dict (>, <, >=, <=) dict → Not Supported
 - dict (==, !=) dict → Supported
- Two dict objects are equal if their items are equal,
 Elements can be stored in any order.

dict object methods

- item()
- keys()
- values()
- pop(Key)
- popitem()
- clear()

dict Comprehension

• D1 = {Key-exp : Data-exp for v in object}