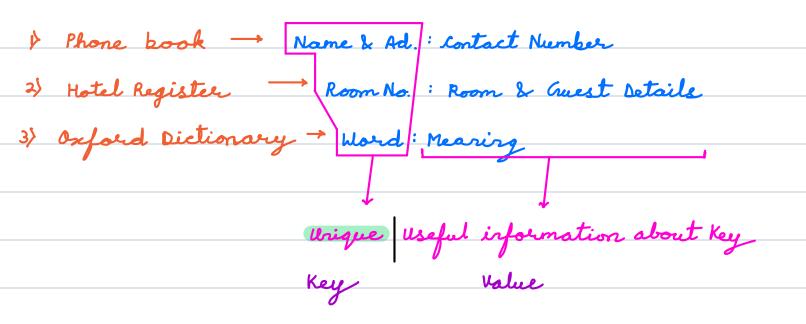
Agenda

- 1. Motivation behind Dictionaries
- 2. Creating a Dictionary
- 3. Properties of Dictionaries
- 4. Iterating over Dictionaries
- 5. Sorting a Dictionary



Real Life Examples

- Phone book Name & Ad.: Contact Number
- 2) Hotel Register Room No.: Room & Guest Details 3) Oxford Dictionary Word: Meaning



Properties of Dictionary

- 1) update
- 2) Add
- 3) Get
- 4) Remove

Iterating over Dictionary

```
Code:
       a = {'name': 'Thor Odinson',
   1
   2
             'age': 1500,
             'weapon': ['mjonir', 'stormbreaker'],
   3
   4
             'strongest': True}
     for i in a:
         print(i)
 Output
 name
 age
 weapon
 strongest
 1
    for i in a:
         print(a[i])
Output
Thor Odinson
1500
['mjonir', 'stormbreaker']
True
 1 for i in a:
 print(f"{i} -> {a[i]}")
Output
name -> Thor Odinson
age -> 1500
weapon -> ['mjonir', 'stormbreaker']
strongest -> True
```

1) have /1		
) . keys ()		
2) values ()		
3) . items ()		

We can simply use the in membership operator to achieve this.	
Can we have object of any datatype as a key in a dictionary?	
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Sorting in Dictionsries

Question • Take a string as input. • Create a dictionary according to the following criteria:-• There will be one key-value pair for each unique character. $\,{\scriptstyle \circ}\,$ Key will be the character name. $\,{\scriptstyle \circ}\,$ Value will be the count of the character inside the string. **Example Input:** rrsssstttt **Example Output:** "r": 2, "s": 3, "t": 4