

Dictionaries

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Dictionaries

Collections

Key

:

Value

Key

:

Value

Key

:

Value

Dictionaries Syntax

```
1 my_dictionary = {"key1": value1, "key2": value2}
```

- Curly Brackets
- “Key” : Value

Dictionary Indices

```
1
2 person_dict = {"name": "Carl", "age": 21,
3 "major": "Electrical Engineering",
4 "courses": ["CPSC392", "CPSC231", "MATH303", "CS618"]}
5
6 person_dict["name"]
7
```

Dictionary Methods

```
2 person_dict = {"name": "Carl", "age": 21,  
3 "major": "Electrical Engineering",  
4 "courses": ["CPSC392", "CPSC231", "MATH303", "CS618"]}  
5  
6 for k in person_dict.keys():  
7     print(k)  
8
```

Dictionary Methods

```
2 person_dict = {"name": "Carl", "age": 21,  
3 "major": "Electrical Engineering",  
4 "courses": ["CPSC392", "CPSC231", "MATH303", "CS618"]}  
5  
6 for v in person_dict.values():  
7     print(v)
```

Dictionary Methods

```
2  person_dict = {"name": "Carl", "age": 21,  
3  "major": "Electrical Engineering",  
4  "courses": ["CPSC392", "CPSC231", "MATH303", "CS618"]}  
5  
6  for k,v in person_dict.items():  
7      print("----")  
8      print(k)  
9      print(v)  
10     print("----")
```

Dictionary Methods

```
2  person_dict = {"name": "Carl", "age": 21,  
3  "major": "Electrical Engineering",  
4  "courses": ["CPSC392", "CPSC231", "MATH303", "CS618"]}  
5  
6  n = person_dict.get("name", "NA")  
7  print(n)  
8  
9  #HAPPY BIRTHDAY!  
10 person_dict["age"] = person_dict.get("age", 18) + 1  
11 print(person_dict)  
12  
13 # PETS  
14 person_dict["num_pets"] = person_dict.get("num_pets", 0) + 1  
15 print(person_dict)
```