

### Methods for dict

```
len(dict_name) # the no. of items in dictionary
dict_name.clear() # empty the dictionary
dict_name.items() # pairs of key and value
dict_name.keys() # all keys in the dictionary
dict_name.values() # all values in the dictionary
```

### Text File I/O

#### Reading

```
file_pointer = open("data.txt", "r")
for each_line in file_pointer:
    print(each_line)
file_pointer.close()
```

#### Other Reading:

```
with open("file.txt", "r") as file_pointer:
    content = file_pointer.read()
    # file_pointer.readline(): line by line as a string
    # file_pointer.readlines(): as a single list
    print(content)
```

#### Writing:

```
# file_pointer.write(s), file_pointer.writelines(lines)
file_pointer = open("line.txt", "w")
data_list = ["l1", "l2"]
for each_line in data_list:
    print(each_line, file=file_pointer)
file_pointer.close()
```

#### Other Writing:

```
data_list = ["l1", "l2"]
with open("data.txt", "w") as file_pointer:
    for each in data_list:
        file_pointer.write(each)
```

### CSV File I/O

```
import csv
data_row = ['Data1', 'Data2', 'Data3']
with open("data.csv", "r") as file_pointer:
    csv_reader = csv.reader(file_pointer)
    for each in csv_reader:
        print(each) # type(each) = list
```

#### CSV Writing

```
with open("data.csv", "w") as file_pointer:
    csv_writer = csv.writer(file_pointer)
```

```
csv_writer.writerow(data_row)
csv_writer.writerow(data_row)
```

### JSON File I/O

#### JSON dump

```
import json
kelvin = {}
kelvin['Name'] = 'Kelvin Lee'
kelvin['income'] = 5300
kelvin['children'] = [{'Name': 'Alice', 'age': 10}]
with open("profile.json", "w") as write_file:
    json.dump(kelvin, write_file, indent=6)
```

#### JSON load

```
with open("profile.json", "r") as read_file:
    kelvin = json.load(read_file)
    print(kelvin['Name'])
    for c in kelvin['children']:
        print(c['age'], c['Name'])
```

### Object File (Pickling - object --> byte stream)

#### Pickling (Object Serialization)

##### • Pickling

```
import pickle
# w=write, b=binary
with open(obj_file, 'wb') as f:
    pickle.dump(data_toStore, f)
```

##### • Unpickling

```
import pickle
# w=read, b=binary
with open(obj_file, 'rb') as f:
    data_load = pickle.load(f)
```



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