working with json files?
----
        if we want to working with json files,to required json package.

        json package is a builtin python package.

if we want to write the data into json file's by calling dump() of json package.

if we want to read the data from json file's by calling load() of json package.

        json means java-script object notation

the json file's to store the data into the dict format.

        {key:value,key:value,....,key:value}

ex1:
---
wap to write the data into json file?

```
import json
data={"emp":[{"eid":101,"ename":'siva',"sal":3000},
             {"eid":102,"ename":'rama',"sal":2000},
             {"eid":103,"ename":'krishna',"sal":4000}
             ],
      "cust":[{'cid':1,'cname':"xyz",'cloc':"hyd"},
              {'cid':2,'cname':"pqr",'cloc':"pune"},
              {'cid':3,'cname':"abc",'cloc':"vizag"}
              ]
      }

with open('mydata.json','w') as f1:
    json.dump(data,f1)
```

output:
------
        mydata.json

{"emp": [{"eid": 101, "ename": "siva", "sal": 3000}, {"eid": 102, "ename": "rama",
"sal": 2000}, {"eid": 103, "ename": "krishna", "sal": 4000}], "cust": [{"cid": 1,
"cname": "xyz", "cloc": "hyd"}, {"cid": 2, "cname": "pqr", "cloc": "pune"}, {"cid":
3, "cname": "abc", "cloc": "vizag"}]}

ex2:
---
wap to read the data from json file?

        mydata.json

{"emp": [{"eid": 101, "ename": "siva", "sal": 3000}, {"eid": 102, "ename": "rama",

```
"sal": 2000}, {"eid": 103, "ename": "krishna", "sal": 4000}], "cust": [{"cid": 1,
"cname": "xyz", "cloc": "hyd"}, {"cid": 2, "cname": "pqr", "cloc": "pune"}, {"cid":
3, "cname": "abc", "cloc": "vizag"}]}


import json
with open('mydata.json') as f2:
    x=json.load(f2)
    print(x)
    print('*'*20)
    print(x['emp'])
    print('*'*20)
    print(x['emp'][1])
    print('*'*20)
    print(x['emp'][1]['ename'])

output:
------
{'emp': [{'eid': 101, 'ename': 'siva', 'sal': 3000}, {'eid': 102, 'ename': 'rama',
'sal': 2000}, {'eid': 103, 'ename': 'krishna', 'sal': 4000}], 'cust': [{'cid': 1,
'cname': 'xyz', 'cloc': 'hyd'}, {'cid': 2, 'cname': 'pqr', 'cloc': 'pune'}, {'cid':
3, 'cname': 'abc', 'cloc': 'vizag'}]}
********************
[{'eid': 101, 'ename': 'siva', 'sal': 3000}, {'eid': 102, 'ename': 'rama', 'sal':
2000}, {'eid': 103, 'ename': 'krishna', 'sal': 4000}]
********************
{'eid': 102, 'ename': 'rama', 'sal': 2000}
********************
rama
```

working with csv files?
----
        csv means comma seperated values.

if we want to working with csv files to required csv module,csv module is a builtin
module.

if we want to write the data into csv files by calling writer() and DictWriter() of
csv module.

the writer() and DictWriter() to return the writer object.

the writer object to provides two methods,they are writerow() and
writerows().

if we want to read the data from csv files by calling reader() and DictReader() of
csv module.

the reader() and DictReader() to return the reader object.

ex1:
---
wap to read the data from csv file by using reader()?

        myinfo.csv
        ----
eid,ename,sal,dno
101,siva,2000,10
102,rama,3000,20
103,krishna,4000,30

```
import csv
with open('myinfo.csv') as f2:
    reader_obj=csv.reader(f2)
    for row in reader_obj:
        print(row)
```

output:

['eid', 'ename', 'sal', 'dno']
['101', 'siva', '2000', '10']
['102', 'rama', '3000', '20']
['103', 'krishna', '4000', '30']

ex2:
----
wap to read the data from csv file by using DictReader()?

        myinfo.csv
        ----
eid,ename,sal,dno
101,siva,2000,10
102,rama,3000,20
103,krishna,4000,30


```
import csv
with open('myinfo.csv') as f2:
    reader_obj=csv.DictReader(f2)
    for row in reader_obj:
        print(row)
```

output:
------
        myinfo.csv

{'eid': '101', 'ename': 'siva', 'sal': '2000', 'dno': '10'}
{'eid': '102', 'ename': 'rama', 'sal': '3000', 'dno': '20'}
{'eid': '103', 'ename': 'krishna', 'sal': '4000', 'dno': '30'}

```
ex3:
---
wap to write the data into csv file by uisng writer()?

import csv
with open('mysample.csv','w') as f1:
    writer_obj=csv.writer(f1)
    writer_obj.writerow(['cid','cname','cadd'])
    writer_obj.writerow([1,'siva','hyd'])
    writer_obj.writerow([2,'rama','pune'])
    writer_obj.writerow([3,'krishna','vizag'])

output:
-----
        mysample.csv
        ------------
cid,cname,cadd

1,siva,hyd

2,rama,pune

3,krishna,vizag

ex4:
----
wap to write the data into csv file by uisng writer()?

        mysample1.csv
        --------------
import csv
with open('mysample1.csv','w',newline="") as f1:
    writer_obj=csv.writer(f1)
    writer_obj.writerow(['cid','cname','cadd'])
    writer_obj.writerow([1,'siva','hyd'])
    writer_obj.writerow([2,'rama','pune'])
    writer_obj.writerow([3,'krishna','vizag'])

output
-----
        mysample1.csv
        -------------
cid,cname,cadd
1,siva,hyd
2,rama,pune
3,krishna,vizag

ex5:
----
```

wap to write the data into csv file by uisng writer()?

```
import csv
with open('mysample2.csv','w',newline="") as f1:
    writer_obj=csv.writer(f1)
    writer_obj.writerows([['cid','cname','cadd'],
                          [1,'siva','hyd'],
                          [2,'rama','pune'],
                          [3,'krishna','vizag']])
```

output:
------
        mysample2.csv
        ----
cid,cname,cadd
1,siva,hyd
2,rama,pune
3,krishna,vizag

ex6:
---
wap to write the data into csv file by uisng DictWriter()?

```
import csv
with open('mysample3.csv','w',newline="") as f1:
    writer_obj=csv.DictWriter(f1,
                              fieldnames=['cid','cname','fee'])
    writer_obj.writerow({'cid':101,'cname':'xyz','fee':2000})
    writer_obj.writerow({'cid':102,'cname':'pqr','fee':4000})
    writer_obj.writerow({'cid':103,'cname':'abc','fee':3000})
```

output:
------
        mysample3.csv

101,xyz,2000
102,pqr,4000
103,abc,3000

ex7:
---
wap to write the data into csv file by uisng DictWriter()?

```
import csv
with open('mysample4.csv','w',newline="") as f1:
    writer_obj=csv.DictWriter(f1,
                              fieldnames=['cid','cname','fee'])
    writer_obj.writeheader()
    writer_obj.writerow({'cid':101,'cname':'xyz','fee':2000})
    writer_obj.writerow({'cid':102,'cname':'pqr','fee':4000})
```

```
    writer_obj.writerow({'cid':103,'cname':'abc','fee':3000})

output:
-------
        mysample4.csv
        -------------
cid,cname,fee
101,xyz,2000
102,pqr,4000
103,abc,3000


ex8:
----
wap to write the data into csv file by uisng DictWriter()?

import csv
with open('mysample5.csv','w',newline="") as f1:
    writer_obj=csv.DictWriter(f1,
                              fieldnames=['cid','cname','fee'])
    writer_obj.writeheader()
    writer_obj.writerows([{'cid':101,'cname':'xyz','fee':2000},
                          {'cid':102,'cname':'pqr','fee':4000},
                          {'cid':103,'cname':'abc','fee':3000}])

        mysample5.csv
        -------------
cid,cname,fee
101,xyz,2000
102,pqr,4000
103,abc,3000
```