```
#file handling reading the file
with open('sample_users.csv',"r") as f:
    print(f.read())
```

Show hidden output

```
#csv comma separated value ie sabai value comma le separate vaxa
```

```
#tyo file bata first name haru jhikne

import csv

with open("sample_users.csv","r") as f:
    data = csv.reader(f)
    for i in data:
        print(i[0],i[3]) # index bata access garna lai i[0] yesari garne
```

```
# csv ma data change vayo vane code pani change hunxa
#yocode garda ramro

import csv

with open("sample_users.csv","r") as f:
    data = csv.DictReader(f)
    for i in data:
        print(i['first_name'],i['address'])
```

```
James 6649 N Blue Gum St
Josephine 4 B Blue Ridge Blvd
Art 8 W Cerritos Ave #54
Lenna 639 Main St
Donette 34 Center St
Simona 3 Mcauley Dr
Mitsue 7 Eads St
Leota 7 W Jackson Blvd
Sage 5 Boston Ave #88
Kris 228 Runamuck Pl #2808
Minna 2371 Jerrold Ave
Abel 37275 St  Rt 17m M
Kiley 25 E 75th St #69
Graciela 98 Connecticut Ave Nw
Cammy 56 E Morehead St
Mattie 73 State Road 434 E
Meaghan 69734 E Carrillo St
Gladys 322 New Horizon Blvd
Yuki 1 State Route 27
Fletcher 394 Manchester Blvd
Bette 6 S 33rd St
Veronika 6 Greenleaf Ave
Willard 618 W Yakima Ave
Maryann 74 S Westgate St
Alisha 3273 State St
Allene 1 Central Ave
Chanel 86 Nw 66th St #8673
Ezekiel 2 Cedar Ave #84
Willow 90991 Thorburn Ave
Bernardo 386 9th Ave N
Ammie 74874 Atlantic Ave
Francine 366 South Dr
Ernie 45 E Liberty St
Albina 4 Ralph Ct
Alishia 2742 Distribution Way
Solange 426 Wolf St
Jose 128 Bransten Rd
Rozella 17 Morena Blvd
Valentine 775 W 17th St
Kati 6980 Dorsett Rd
Youlanda 2881 Lewis Rd
Dyan 7219 Woodfield Rd
Roxane 1048 Main St
Lavera 678 3rd Ave
Erick 20 S Babcock St
Fatima 2 Lighthouse Ave
Jina 38938 Park Blvd
Kanisha 5 Tomahawk Dr
Emerson 762 S Main St
Blair 209 Decker Dr
```

```
Brock 4486 W O St #1
Lorrie 39 S 7th St
Sabra 98839 Hawthorne Blvd #6101
Marjory 71 San Mateo Ave
Karl 76 Brooks St #9
Tonette 4545 Courthouse Rd
Amber 14288 Foster Ave #4121
Shenika 4 Otis St
```

```
#write in csv
import csv

student =('Ramesh','Ktm',22)

with open('student.csv','w') as f:
    writer = csv.writer(f) #csv ma write garna lai
    writer.writerow(student)
```

```
#for multiple data using loop

import csv

student = [
    ("Name","Address","Age"),
    ("Ram","ktm",22),
    ("Shyam","klpr",20),
    ("Rita","butwal",19),
    ("Hari","Lalitpur",25)

]

with open('students.csv','w') as f:
    writer = csv.writer(f)
    for student in student: #loop lagayera multiple valur write garne
      writer.writerow(student)  # single write at once
```

```
#next method to write without using loop
# derai data huda yo use garne


import csv

students = [
    ("Name","Address","Age"),
    ("Ram","ktm",22),
    ("Shyam","klpr",20),
    ("Rita","butwal",19),
    ("Hari","Lalitpur",25)

]

with open("students.csv","w") as f:
    writer = csv.writer(f)
    writer.writerows(students) # bulk write/multiple write at once
```

```
import csv

student = {'name': "Ram", 'address': "KTM", "age": 33} # dictionary data xa vane #DictWriter use garne

with open("person.csv","w") as f:
    writer = csv.DictWriter(f, fieldnames=student.keys())
    writer.writeheader()
    writer.writerow(student)
```

```
import csv

student = {'name': "Ram", 'address': "KTM", "age": 33} # dictionary data xa vane #DictWriter use garne

with open("person.csv","w") as f:
    writer = csv.DictWriter(f, fieldnames=['name','address','age']) #yesari ni garna milyo
    writer.writeheader()
    writer.writerow(student)
```

```
# bulkma garna xa vane rows garne
# loop ma writerows

import csv

students = [
    {'name':"Ram", 'address': "ktm", 'age': 22},
    {'name':"Rita", 'address': "klpr", 'age': 32},
    {'name':"shyam", 'address': "butwal", 'age': 20},
    {'name':"hari", 'address': "lalitpur", 'age': 29},

]

with open("students.csv","w") as f:
    writer = csv.DictWriter(f, fieldnames=students[0].keys())
    writer.writeheader()
    for student in students:
      writer.writerow(student) # single write at once
```

```
import csv

students = [
    {'name':"Ram", 'address': "ktm", 'age': 22},
    {'name':"Rita", 'address': "klpr", 'age': 32},
    {'name':"shyam", 'address': "butwal", 'age': 20},
    {'name':"hari", 'address': "lalitpur", 'age': 29},

]

with open("students.csv","w", newline='', encoding='utf-8') as f: # windows am automaticaly auta line thapera auxa tyo remove hgarna lai yo
    writer = csv.DictWriter(f, fieldnames=students[0].keys())
    writer.writeheader()
    for student in students:
      writer.writerow(student)
```

```
ls=[1,2,3,4,5,6]
#output yesto auna paryo output=[1,4,9,16,25,36]
```

```
ls=[1,2,3,4,5,6]

#non pythonic code yo banda better code garna sakinxa
squares = []
for i in ls:
    squares.append(i**2)
print(squares)
```

```
[1, 4, 9, 16, 25, 36]
```

```
#better code than above
ls=[1,2,3,4,5,6]

#pythonic code
squares = [i**2 for i in ls] # this process is called list comprehension
print(squares)
```

```
[1, 4, 9, 16, 25, 36]
```

```
age = 17

if age < 18:
    print("Unauthorized")
else:
    print("Authorized")
```

```
Unauthorized
```

```
age = 17
```

```
#ternary operator ho yo use garna lai if else duitai huna paryo
is_authorized = "Unauthorized" if age < 18 else "Authorized"
print(is_authorized)
```

```
Unauthorized
```

```
numbers = [1,23,4,3,4,2,2]
#output = ["odd","odd","even","odd"..]

#non pythonic code
output = []
for number in numbers:
    if number % 2 == 0:
        output.append('even')
    else:
        output.append('odd')
print(output)
```

```
['odd', 'odd', 'even', 'odd', 'even', 'even', 'even']
```

```
numbers = [1,23,4,3,4,2,2]
#output = ["odd","odd","even","odd"..]


#pythonic code

output = ['even' if number % 2 == 0 else 'odd' for number in numbers]
print(output)
```

```
['odd', 'odd', 'even', 'odd', 'even', 'even', 'even']
```

```
numbers = [-8,-7,3,-1,0,1,3,4,5,-7,6,8,10]
# output = [3,1,3,4,5,6,8,10]

#non pythonic code

output = []
for number in numbers:
    if number >0:
        output.append(number)
print(output)
```

```
[3, 1, 3, 4, 5, 6, 8, 10]
```

```
numbers = [-8,-7,3,-1,0,1,3,4,5,-7,6,8,10]
# output = [3,1,3,4,5,6,8,10]

#pythonic code
# if matra xa avane yesto garne

output = [number for number in numbers if number >0]
print(output)
```

```
[3, 1, 3, 4, 5, 6, 8, 10]
```

```
us_price = {'milk': 2.05, 'bread': 2.6, 'butter': 2.6}
# nep_price = {'milk': 268.6935, 'bread': 340.782, 'butter': 340.82}


# non pythonic way
nep_price = {}

for product, price in us_price.items():
    nep_price.update({product: price*131.07})

print(nep_price)
```

```
{'milk': 268.6935, 'bread': 340.782, 'butter': 340.782}
```

```
us_price = {'milk': 2.05, 'bread': 2.6, 'butter': 2.6}
# nep_price = {'milk': 268.6935, 'bread': 340.782, 'butter': 340.82}


#pythonic way

nep_price = {

    product: price*131.07
    for product, price in us_price.items()
}
print(nep_price)
```

```
{'milk': 268.6935, 'bread': 340.782, 'butter': 340.782}
```

Start coding or generate with AI.