

CSV File Handling

```
Example: --> for using csv file in python you need to import one module that is known as csv

121, pratyush,9721372543,ashu
```

Write Operation in CSV Files

In f 1: For writing Purpose we in csv file we need to use 2 different Methods:

In this function you need

Example

```
In [1]: import csv
with open("Extra.csv","w",newline="") as f:
    w=csv.writer(f)
    w.writerow(["Student_name","Student_age","Student Roll no","Student Mobile_no","Student Address"])
    n=int(input("Enter Number of Student whose data you want to store ")) #5
    for i in range(n):
        Student_name=input("Enter Student name :")
        Student_age=Int(input("Enter Student age :"))
```

```
print("Total S
```

```
Enter Student age :21
Enter Student RollNo :23
Enter Student MobileNumber :987
Enter Student Address :Lucknow
Enter Student name :Naman
Enter Student age :10
Enter Student Rollno : 21
Enter Student MobileNumber :98
Enter Student Address :delhi
Total Students data is stored
```

Read Operation in CSV File

```
In [ ]: for reading purpose we are having one method named as:

reader() --> In this function we need to pass file pointer.
```

Example

```
In [6]: import csv
f = open("employees.csv","r")
r=csv.reader(f)
data = list(r)
print(data)

[['Employee_Name', 'Employee_Number', 'Employee_Salary', 'Employee_Mobile', ['Krish', '90', '900000000', '9721378976'], ['Arnav', '923', '90000000', '986'], ['name', '98', '98', '98'], ['tushar', '99', '99', '99']]

In [5]: import csv
f = open("diabetes.csv","r")
r=csv.reader(f)
data = list(r)
print(data)
```

```
'0', '0', '37.6', '0.191', '30', '0'], ['10',
7', '0'], ['1', '189', '60', '23', '846', '30
'0', '0', '0', '30', '0.484', '32', '1'], ['0
4', '31', '1'], ['1', '103', '30', '38', '83,
```

[illegible]

```
0', '48', '48',
1', '0'], ['6',
'18', '76', '2',
5', '31', '1']
```

[illegible]

```
1', '88', '0',  
'0.256', '22',  
1', '90', '12',  
'0.542', '29',
```

[illegible]

```
'141', '0', '0',
'0.2', '63', '0',
'0', '0', '0',
'21', '0'], ['
```

[illegible]

```

1 ], [ 12 ,
'33', '325',
'65', '0'], [
'28', '83', '3
013, [101, 10

```

[illegible]

```
'28', '71', '3'
6', '81', '0']
0', '40', '49'
'34' '0'] ['
```

[illegible]

```
'115', '36.9',
0', '0'], ['8'
'0', '0', '30.
8', '1'], ['1'
```

[illegible]

```
3', '106', '33',
'27', '0'], [
'58', '35', '9',
'0.19', '51',
```

[illegible]

```
'1.096', '32',
'136', '70',
'0.223', '25',
'128', '88',
```

```

In [4]: import pandas as pd
df=pd.read_csv("employees.csv")
df.head(5)

Out[4]:
  Employee_Name  Employee_Number  Employee_Salary  Employee_Mobile
0      Krishna                90      900000000      9721378976
1      Arnav                923      900000000                986
2      name                98                98                98
3      tushar                99                99                99

In [8]: import pandas as pd
df=pd.read_csv("diabetes.csv")
df.head(5)

Out[8]:
  Pregnancies  Glucose  BloodPressure  SkinThickness  Insulin  BMI  DiabetesPedigreeFunction  Age  Outcome
0      6      148          72           35      0  33.6              0.627      50      1
1      1       85          66           29      0  26.6              0.351      31      0
2      8      183          64           0      0  23.3              0.672      32      1

```

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Append Mode in CSV File

In []: For appending Purpose we **in** csv file we need to use 2 different Methods:

```
writer method -> it ensures in which file you need to write the data
writerow method -> it is used to write the data in the first row that will used as a column for rest of the data.
    In this function you need to pass argument as a list elemnt.
```

Example

```
In [10]: import csv
with open("Employees.csv","a",newline='') as f:
    w=csv.writer(f)
    w.writerow(["Student_name","Student_age","Student Roll no","Student Mobile no","Student Address"])
    n=int(input("Enter Number of Student whose data you want to store ")) #5
    for i in range(n):
        Student_name=input("Enter Student name :")
        Student_age=int(input("Enter Student age :"))
        Student_rollno=int(input("Enter Student RollNo :"))
        Student_mobile=int(input("Enter Student MobileNumber :"))
        Student_Address = input("Enter Student Address :")
        w.writerow([Student_name,Student_age,Student_rollno, Student_mobile])#,Student_Address])
    print("Total Students data is stored")

Enter Number of Student whose data you want to store 2
Enter Student name :Naman
Enter Student age :21
Enter Student Rollno :98
Enter Student MobileNumber :98
```

Enter Student
Enter Student
Enter Student
Enter Student
Enter Student

XML File Handling

```
In [ ]: XML --> Extensible Markup Language.
--> if you want to store your data in the form of tags then you need to use xml file handling.
--> Markup languages are those languages which consists of tags. <head> </head>
--> then you need to import one module that is xmltodict

In [ ]: --> for converting xml data to python dictionary we need to use parse method which is present in xmltodict module
```

Example

```
In [11]: import xmltodict
my_xml = """
<audience>
<id>123</id>
<name>Ankur</name>
</audience>
"""
s = xmltodict.parse(my_xml)
s

Out[11]: {'audience': {'id': '123', 'name': 'Ankur'}}
```

```
In [12]: import xmltodict
my_xml = """<note>
<to>Tove</to>
```

```
s = xmltodict.  
print(s)
```

```
{ "note": { "to": "love", "from": "Jani", "heading": "Reminder", "body": "Don't forget me this weekend!!" }}
```

```
In [13]: my_xml = """
<bookstore>
  <book category="COOKING">
    <title lang="en">Everyday Italian</title>
    <author>Giada De Laurentiis</author>
    <year>2005</year>
    <price>30.00</price>
  </book>
  <book category="CHILDREN">
    <title lang="en">Harry Potter</title>
    <author>J. K. Rowling</author>
    <year>2003</year>
    <price>29.99</price>
  </book>
  <book category="WEB">
    <title lang="en">Learning XML</title>
    <author>Erik T. Ray</author>
    <year>2003</year>
    <price>39.95</price>
  </book>
</bookstore> """
s = xmltodict.parse(my_xml)
s
```

```
Out[13]: {'bookstore': {'book': [{'@category': 'COOKING',
  'title': {'@lang': 'en', '@text': 'Everyday Italian'},
  'author': 'Giada De Laurentiis',
  'year': '2005',
  'price': '30.00'},
  {'@category': 'CHILDREN',
  'title': {'@lang': 'en', '@text': 'Harry Potter'}
```

```
'price': '
{'@category
'title': {
'author':
```