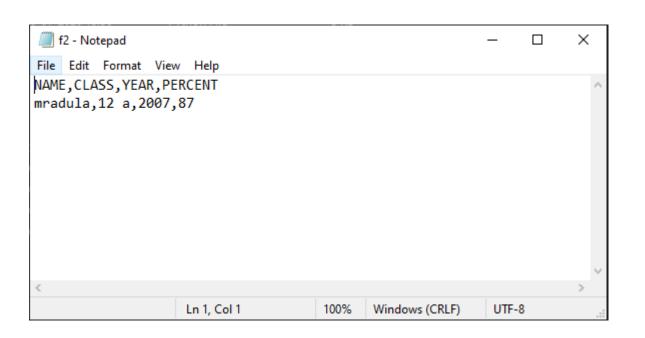
## CSV FILE HANDLING

```
Writing in csv with delimiter
 import csv
f=['NAME','CLASS','YEAR','PERCENT']
 with open('f1.csv','w',newline='') as fobj:
   csv_w=csv.writer(fobj,delimiter=',')
  csv w.writerow(f)
  num=int(input("HOW MANY RECORDS DO YOU WANT TO ENTER"))
  for i in range(num):
     nm=input("ENTER NAME")
     cl=input("ENTER CLASS")
     yr=input("ENTER YEAR")
     pr=input("ENTER PERCENTAGE")
     l=[nm,cl,yr,pr]
     csv_w.writerow(I)
   print("file created")
  Python 3.8.2 Shell
                                                                               Х
 File Edit Shell Debug Options Window Help
 Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
 tel)] on win32
 Type "help", "copyright", "credits" or "license()" for more information.
 = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4
  .py
 HOW MANY RECORDS DO YOU WANT TO ENTER2
 ENTER NAMEmradula
 ENTER CLASS12
 ENTER YEAR2020
 ENTER PERCENTAGE85
 ENTER NAMEsomeone
 ENTER CLASS12
 ENTER YEAR2015
 ENTER PERCENTAGE89
 file created
 >>>
  f1 - Notepad
                                                                        X
 File Edit Format View Help
 NAME, CLASS, YEAR, PERCENT
 mradula, 12, 2020, 85
 someone, 12, 2015, 89
                                          100%
                       Ln 1, Col 1
                                                 Windows (CRLF)
                                                                  UTF-8
```

```
Writing in csv list of lists
 import csv
 fi=['STUD NAME','CLASS','JOINING YEAR','PERCENTAGE']
 r=[
   ['A','XII A','2020','92'],
   ['B','XII A','2020','82'],
   ['C','XII A','2020','94'],
   ['D','XII A','2020','85'],
   ['E','XII A','2020','88']
 fname='marks.csv'
 with open(fname,'w',newline=") as f:
   csv_w=csv.writer(f,delimiter=',')
   csv_w.writerow(fi)
   for x in r:
     csv_w.writerow(x)
 print("FILE CREATED")
  Python 3.8.2 Shell
                                                                                  Х
  File Edit Shell Debug Options Window Help
  Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In ^
  tel)] on win32
  Type "help", "copyright", "credits" or "license()" for more information.
  = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice comp codes\prac4
  .py
  FILE CREATED
  >>>
  marks - Notepad
                                                                          ×
  File Edit Format View Help
  STUD NAME, CLASS, JOINING YEAR, PERCENTAGE
  A,XII A,2020,92
  B,XII A,2020,82
  C,XII A,2020,94
  D,XII A,2020,85
  E,XII A,2020,88
                                            100%
                                                   Windows (CRLF)
                                                                     UTF-8
                        Ln 1, Col 1
```

Writing in csv without delimiter import csv f=['NAME','CLASS','YEAR','PERCENT'] with open ("f2.csv", 'w', newline=") as fobj: csv\_w=csv.writer(fobj) csv w.writerow(f) num=int(input("HOW MAY RECORDS DO YOU WANT TO ENTER??")) for i in range(num): nm=input("ENTER NAME") cl=input("ENTER CLASS") yr=input("ENTER YEAR OF JOINING") pr=input("ENTER PERCENTAGE") l=[nm,cl,yr,pr] csv\_w.writerow(I) print("file created") Python 3.8.2 Shell Х File Edit Shell Debug Options Window Help Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice comp codes\prac4 .py HOW MAY RECORDS DO YOU WANT TO ENTER ?? 1 ENTER NAMEmradula ENTER CLASS12 a ENTER YEAR OF JOINING2007 ENTER PERCENTAGE87 file created >>>



```
Writing in csv with delimiter as '|'
 import csv
f=['NAME','CLASS','YEAR','PERCENT']
 with open ("f2.csv", 'w', newline=") as fobj:
   csv_w=csv.writer(fobj,delimiter='|')
   csv w.writerow(f)
   num=int(input("HOW MAY RECORDS DO YOU WANT TO ENTER??"))
  for i in range(num):
     nm=input("ENTER NAME")
     cl=input("ENTER CLASS")
     yr=input("ENTER YEAR OF JOINING")
     pr=input("ENTER PERCENTAGE")
     I=[nm,cl,yr,pr]
     csv_w.writerow(I)
   print("file created")
 Python 3.8.2 Shell
                                                                               X
 File Edit Shell Debug Options Window Help
 Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In A
 tel)] on win32
 Type "help", "copyright", "credits" or "license()" for more information.
 = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice comp codes\prac4
 .py
 HOW MAY RECORDS DO YOU WANT TO ENTER ?? 1
 ENTER NAMEmradula
 ENTER CLASS12 a
 ENTER YEAR OF JOINING2007
 ENTER PERCENTAGE87
 file created
 >>>
                                                                               ×
  f2 - Notepad
                                                                        File Edit Format View Help
 NAME | CLASS | YEAR | PERCENT
 mradula|12 a |2007|87
                                          100%
                       Ln 1, Col 1
                                                 Windows (CRLF)
                                                                  UTF-8
```

Writing in csv -multiple rows import csv f=['NAME','CLASS','YEAR','PERCENT'] I=[['arya','12','2003','90'],['aryan','12','2005','89']] with open("f2.csv","w",newline="") as fobj: csv\_w=csv.writer(fobj,delimiter=',') csv\_w.writerow(f) csv\_w.writerows(I) print("file created") Python 3.8.2 Shell X File Edit Shell Debug Options Window Help Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice\_comp\_codes\prac4 .py file created >>> f2 - Notepad × File Edit Format View Help NAME, CLASS, YEAR, PERCENT arya,12,2003,90 aryan,12,2005,89

100%

Windows (CRLF)

UTF-8

Ln 1, Col 1

• Reading csv file import csv def read\_data(): with open("f1.csv",'r') as fobj: csv\_r=csv.reader(fobj) for record in csv\_r: print(record) read\_data() Python 3.8.2 Shell × File Edit Shell Debug Options Window Help Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice comp codes\prac4

['NAME', 'CLASS', 'YEAR', 'PERCENT']
['mradula', '12', '2020', '85']
['someone', '12', '2015', '89']

>>>

• Menu driven program

```
import csv
def write_data():
  fields=['NAME','CLASS','YEAR','PERCENT']
  with open("f1.csv",'w',newline=") as fobj:
    csv_w=csv.writer(fobj,delimiter=',')
    csv_w.writerow(fields)
    num_of_rec=int(input("How many records do u want to enter"))
    for i in range(num_of_rec):
      nm=input("enter name")
      cl=input("enter class")
      yr=input("enter year")
      pr=input("enter percentage")
    L=[nm,cl,yr,pr]
    csv_w.writerow(L)
    print("File created")
def read_data():
  with open("f1.csv",'r') as fobj:
    csv_r=csv.reader(fobj)
    for record in csv_r:
      print(record)
while True:
  print("1: write data")
  print("2: display all")
  print("0: exit")
  ch=int(input("enter choice"))
  if ch==1:
    write_data()
  elif ch==2:
    read_data()
  elif ch==0:
    break
```

```
• Reading csv file and adding to another list
   import csv
   def read_data():
     with open("f1.csv","r") as fobj:
       csv_r=csv.reader(fobj)
       rec_lst=[]
       for r in csv_r:
         rec_lst.append(r)
       print(rec_lst)
   read_data()
   Python 3.8.2 Shell
                                                                             - 🗆 X
   File Edit Shell Debug Options Window Help
   Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
   tel)] on win32
   Type "help", "copyright", "credits" or "license()" for more information.
   = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice comp codes\prac4
   [['NAME', 'CLASS', 'YEAR', 'PERCENT'], ['mradula', '12', '2020', '85'], ['someon e', '12', '2015', '89']]
   >>>
```

• Reading first line of csv file and counting other rows

```
import csv
def read_data():
    with open("f1.csv","r") as fobj:
        csv_r=csv.reader(fobj)
        col=next(csv_r)
        print("columns:",col)
        r=0
        for rec in csv_r:
        r+=1
        print("number of records:",r)
read_data()
```

```
File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4
.py
columns: ['NAME', 'CLASS', 'YEAR', 'PERCENT']
number of records: 2

>>>
```

• Reading csv file and counting total rows import csv def read\_data(): with open("f1.csv","r") as fobj: csv\_r=csv.reader(fobj) col=next(csv\_r) print("columns:",col) r=0 fobj.seek(20) for rec in csv\_r: print(rec) r+=1 print("number of records:",r) read\_data() Python 3.8.2 Shell Х File Edit Shell Debug Options Window Help Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In A tel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice comp codes\prac4 .py columns: ['NAME', 'CLASS', 'YEAR', 'PERCENT'] ['ENT'] ['mradula', '12', '2020', '85']
['someone', '12', '2015', '89'] number of records: 3 >>>

 Reading csv file and counting total number of records (except first row)in it import csv

```
def read_data():
    with open("f1.csv","r") as fobj:
        csv_r=csv.reader(fobj)
        print("number of records",len(list(csv_r))-1)
read_data()
```

```
Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4
.py
number of records 2

>>>>
```

• Reading csv file and printing records simultaneously import csv def read\_data(): with open("f1.csv","r") as fobj: csv\_r=csv.reader(fobj) for rec in csv\_r: print(csv\_r.line\_num) print(rec) read\_data() Python 3.8.2 Shell - 🗆 X File Edit Shell Debug Options Window Help Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In tel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice\_comp\_codes\prac4 ['NAME', 'CLASS', 'YEAR', 'PERCENT'] ['mradula', '12', '2020', '85'] ['someone', '12', '2015', '89'] >>>

• Reading csv without showing list import csv def read\_data(): with open("f1.csv","r") as fobj: csv\_r=csv.reader(fobj) for rec in csv\_r: print(",".join(rec)) read\_data() Python 3.8.2 Shell × File Edit Shell Debug Options Window Help Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In ^ tel)] on win32 Type "help", "copyright", "credits" or "license()" for more information. = RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice\_comp\_codes\prac4 .py NAME, CLASS, YEAR, PERCENT mradula, 12, 2020, 85 someone, 12, 2015, 89 >>>