Chapter 5: File Handling

Writing into Files:

Like *reading* functions, the *writing* function for data files are also work on *opened files*, i.e., the files that are opened and linked via a *file-object or file-handle*.

Python Data Files – Writing Functions

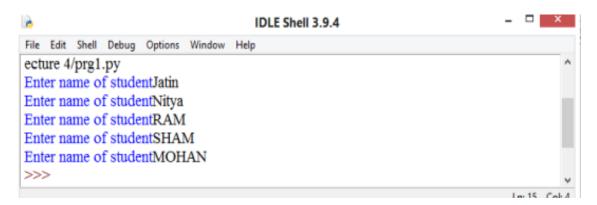
S.No.	Name	Syntax	Description
1.	write()	<pre><filehandle>.write(str1)</filehandle></pre>	Writes string str1 to file referenced by
			<filehandle></filehandle>
2.	Writelines()	<filehandle>writelines(L)</filehandle>	Writes all strings in list as lines to file
			referenced by <filehandle></filehandle>
The <filehandle> in above syntaxes is the <i>file-object</i> holding open file's reference</filehandle>			

Example1:

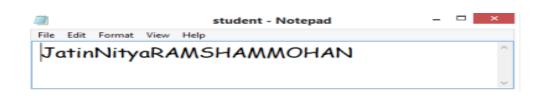
#Prg. 1: Create a file to hold / write some data (Using write())

```
fileout = open(r"E:\textfiles\student.dat", "w")
for i in range(5):
    name=input("Enter name of student")
    fileout.write(name)
fileout.close()
```

Output:



The contents of the created file will be:



Note:

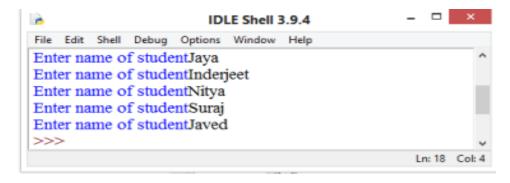
The write() does not add any extra character like newline character ('\n') after every write operation. Thus to group the contents line wise, we have to write newline characters after each write statement / operation.

Example2:

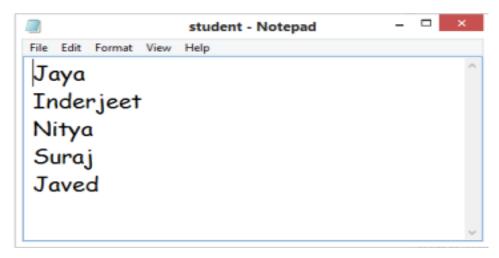
#Prg. 2: Create a file to hold / write some data (Using write())

```
fileout = open(r"E:\textfiles\student.dat", "w")
for i in range(5):
    name=input("Enter name of student")
    fileout.write(name)
    fileout.write('\n')
fileout.close()
```

Output:



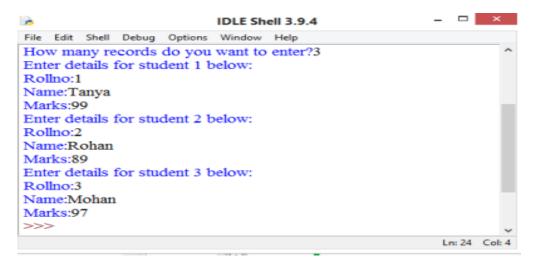
The contents of the created file will be:



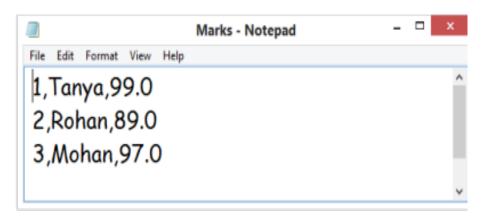
#Prg. 3: Write a program to get roll numbers, names and marks of the students of a class and store these details in a file called ''Marks.det''.

```
count=int(input("How many records do you want to enter?"))
fileout=open("Marks.det", "w")
for i in range(count):
    print("Enter details for student",(i+1),"below:")
    rollno=int(input("Rollno:"))
    name=input("Name:")
    marks=float(input("Marks:"))
    rec=str(rollno)+","+name+","+str(marks)+"\n'
    fileout.write(rec)
fileout.close()
```

Output:



The contents of the created file ("marks.det") will be:



#Prg.4: Write a program to add two more students' details to the file "marks.det"

```
count=int(input("How many records do you want to enter?"))
fileout=open("Marks.det", "a")
for i in range(count):
    print("Enter details for student",(i+1),"below:")
    rollno=int(input("Rollno:"))
    name=input("Name:")
    marks=float(input("Marks:"))
    rec=str(rollno)+","+name+","+str(marks)+'\n'
    fileout.write(rec)
fileout.close()
```

Output:

```
□ ×
                            IDLE Shell 3.9.4
File Edit Shell Debug Options Window Help
How many records do you want to enter?3
Enter details for student 1 below:
Rollno:7
Name:Rohit
Marks:92
Enter details for student 2 below:
Rollno:8
Name:Tony
Marks:87
Enter details for student 3 below:
Rollno:10
Name:Vinay
Marks:96
>>>
                                                             Ln: 30 Col: 4
```

The contents of the created file ("marks.det") will be:

#Prg. 5: Program to display the contents of file "marks.det" through program"

```
filein=open("Marks.det", "r")
Str=" "
print()
while Str:
    Str=filein.readline()
    print(Str,end=' ')
filein.close()
```

Output:

