

COURSE OUTCOME 5

Date: 16/10/2023

1. write a Python program to read a file line by line and store it into a list.

Program.

slist.py

```
with open("stud.txt") as f:  
slist=f.readlines()  
print("The contents of the file are")  
print(slist)  
slist=[x.strip() for x in slist]  
print(slist)
```

stud.txt

hello how are you

I am fine

what is your name

my name is Navya

Output

```
mits@mits-HP-280-Pro-G6-Microtower-PC:~/Desktop/python$ python3 s.py  
['hello how are you\n', 'I am fine\n', 'what is your name\n', 'my name is Navya\n']
```

The contents of the file are

```
['hello how are you', 'I am fine', 'what is your name', 'my name is Navya']
```

```
mits@mits-HP-280-Pro-G6-Microtower-PC:~/Desktop/python$
```

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2. write a Python program to copy odd lines of the file “stud.txt” to “odd.txt” and copy the even lines of the file to “even.txt” .

Program.

print.py

```
s=open("stud.txt","r")
o=open("odd.txt","w")
e=open("even.txt","w")
content=s.readlines()
print("Contents of the file are")
print(content)
for i in range(len(content)):
    if (i%2==0):
        e.write(content[i])
    else:
        o.write(content[i])
```

stud.txt

```
mca
mits
puthencruz
varikoli
```

Output

```
mits@mits-HP-280-Pro-G6-Microtower-PC:~/Desktop/python$ python3
print.py
Contents of the file are
['mca \n', 'mits\n', 'puthencruz\n', 'varikoli\n']
mits@mits-HP-280-Pro-G6-Microtower-PC:~/Desktop/python$
```

odd.txt

mits

varikoli

even.txt

mca

puthencruz

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3. write a Python program to read each row from a given CSV file and print a list of strings.

Program.

e.py

```
import csv
with open("emp.csv","r") as efile:
    data=csv.reader(efile)
    for i in data:
        print (i)
```

emp.csv

Roll No,Name,Age

1,Anu,21

2,Aju,22

3,pinky,23

4,Niva,26

5,Sradha,18

Output

```
mits@mits-HP-280-Pro-G6-Microtower-PC:~/Desktop/python$ python3 e.py
['Roll No', 'Name', 'Age']
['1', 'Anu', '21']
['2', 'Aju', '22']
['3', 'pinky', '23']
['4', 'Niva', '26']
['5', 'Sradha', '18']
mits@mits-HP-280-Pro-G6-Microtower-PC:~/Desktop/python$
```

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4. write a Python program to read specific columns of a given CSV file and print the content of the columns.

Program.

column.py

```
import csv
with open("studentdetails.csv") as csvfile:
    reader = csv.DictReader(csvfile)
    print("id    name    age:")
    for col in reader:
        print(col['id'], "    ", col['name'], "    ", col['age'])
```

studentdetails.csv

```
id,name,age
3,Niva,27
5,Navya,21
7,Amulya,25
```

Output

```
mits@mits-HP-280-Pro-G6-Microtower-PC:~/Desktop/python$ python3
column.py
```

```
id    name    age
3     Niva    27
5     Navya    21
7     Amulya   25
```

```
mits@mits-HP-280-Pro-G6-Microtower-PC:~/Desktop/python$
```

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5. write a Python program to write a python dictionary to a CSV file.After writing the CSV file read the CSV file and display the content.

Program.

dict.py

```
import csv
import pandas
field=['rollno','name','age']
sdict=[{'rollno':5,'name':'Anju','age':21},
        {'rollno':7,'name':'Anu','age':25},
        {'rollno':9,'name':'Ani','age':28}]
with open("dpt.csv","w") as dfile:
writer=csv.DictWriter(dfile,fieldnames=field)
writer.writeheader()
writer.writerows(sdict)
data=pandas.read_csv("dpt.csv")
print(data)
```

Output

mits@mits-HP-280-Pro-G6-Microtower-PC:~/Desktop/python\$ python3 dict.py

	rollno	name	age
0	5	Anju	21
1	7	Anu	25
2	9	Ani	28

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dpt.csv

rollno,name,age

5,Anju,21

7,Anu,25

9,Anil,28