

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

r.py

```
with open("stud.txt") as f:
    slist=f.readlines()
#to remove \n
slist=[x.strip() for x in slist]
print("the contents of the file are-")
print(slist)
```

stud.txt

```
hello !!
good morning
how are you
fine dear
```

Output

```
mits@mits-Lenovo-S510:~/Desktop/s1mca/python/CO5$ python3 r.py
the contents of the file are-
['hello !!', 'good morning', 'how are you', 'fine dear']
mits@mits-Lenovo-S510:~/Desktop/s1mca/python/CO5$
```

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

Program:

oe.py

```
s=open("stud.txt","r")
o=open("odd.txt","w")
e=open("even.txt","w")
content=s.readlines()
content=[x.strip() for x in content]
print("contents of the files are")
print(content)
#len read the no.of lines
for i in range(len(content)):
    if(i%2==0):
        e.write(content[i])
    else:
        o.write(content[i])
s.close()
o.close()
e.close()
```

stud.txt

```
hello !!
good morning
how are you
fine dear
```

Output

```
mits@mits-Lenovo-S510:~/Desktop/s1mca/python/CO5$ python3 oe.py
contents of the files are
['hello !!', 'good morning', 'how are you', 'fine dear']
mits@mits-Lenovo-S510:~/Desktop/s1mca/python/CO5$
```

odd.txt

```
good morning
```

fine dear

even.txt

hello !!

how are you

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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:

csv.py

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

class.csv

```
rollno,name,age
31,diya,25
33,raifa,21
34,githu,27
35,hanna,18
36,hari,39
```

Output

```
mits@mits-Lenovo-S510:~/Desktop/s1mca/python/CO5$ python3 csv.py
['rollno', 'name', 'age']
['31', 'diya', '25']
['33', 'raifa', '21']
['34', 'githu', '27']
['35', 'hanna', '18']
['36', 'hari', '39']
mits@mits-Lenovo-S510:~/Desktop/s1mca/python/CO5$
```

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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

dict.py

```
import csv
with open("column.csv") as csvfile:
    reader=csv.DictReader(csvfile)
    print("name      rollno      program")
    for row in reader:
        print(row['name'], "      ", row['rollno'], "      ", row['program'])
```

column.csv

name,rollno,program

diya,31,c

faizl,32,java

raifa,33,web

githu,34,java

hanna,35,python

Output

mits@mits-Lenovo-S510:~/Desktop/s1mca/python/CO5\$ python3 dict.py

name	rollno	program
------	--------	---------

diyaa	31	c
-------	----	---

faizl	32	java
-------	----	------

raifa	33	web
-------	----	-----

githu	34	java
-------	----	------

hanna	35	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

rw.py

```
import csv
import pandas
field=['name','rollno','age']
sdict=[{'name':'githu','rollno':34,'age':20},
        {'name':'hanna','rollno':24,'age':20}]
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)
```

dpt.csv

```
name,rollno,age
hariniranjan,29,24
githu,27,25
```

Output

mits@mits-Lenovo-S510:~/Desktop/s1mca/python/CO5\$ python3 rw.py

```
name rollno age
0 hariniranjan,29,24
1 githu,27,25
```

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