

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

```
file1=open("file.txt")  
l=[i.split() for i in open("file1.txt")]  
print(l)
```

File.txt

Muthoot Institute of Technology and Science

A premier engineering college in the state, located at Kochi.

Address: Kochi-Madurai-Tondi Point Rd, Puthenkurish, Varikoli,
Kochi, Kerala 682308

Phone: 0484 273 2111

Website: mgmits.ac.in

OUTPUT

```
[['Muthoot', 'Institute', 'of', 'Technology', 'and', 'Science'], ['A', 'premier',  
'engineering', 'college', 'in', 'the', 'state,', 'located', 'at', 'Kochi.'],  
['Address:', 'Kochi-Madurai-Tondi', 'Point', 'Rd,', 'Puthenkurish,',  
'Varikoli,', 'Kochi,', 'Kerala', '682308'], ['Phone:', '0484', '273', '2111'],  
['Website:', 'mgmits.ac.in']]
```

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2. Write a Python program to copy odd and even lines from one file to another.

PROGRAM

```
import pandas
with open('file.txt','r') as f, open('o_file.txt','w') as o,
open('e_file.txt','w') as e:
    for i, j in enumerate(f, 1):
        if i%2==0:
            e.write(j)
        else:
            o.write(j)

f_data=pandas.read_csv('file.txt')
print("Original file data\n",f_data)
o_data=pandas.read_csv('o_file.txt')
print("Odd file data\n",o_data)
e_data=pandas.read_csv('e_file.txt')
print("Even file data\n",e_data)
```

File.txt

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OUTPUT

Original file data

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Odd file data

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Even file data

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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

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

Data.csv

```
Roll No, Name, Age
1,Kuriakose,20
2,Ashwin,20
3,Christo,20
4,Nayana,20
5,Subin,20
```

OUTPUT

```
['Roll No Name Age']
['1', 'Kuriakose', '20']
['2', 'Ashwin', '20']
['3', 'Christo', '20']
['4', 'Nayana', '20']
['5', 'Subin', '20']
```

DATE : 21-10-2023

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

PROGRAM

```
import csv
n=int(input("Enter the line number : "))
with open("Data.csv",'r') as f:
    data=list(csv.reader(f)) print(data[n])
```

OUTPUT

```
Enter the line number : 2
['1', 'Kuriakose', '20']
```

DATE : 21-10-2023

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

```
import csv
import pandas

field_names=['Roll_No', 'Name', 'Age']
stud_dict=[{'Roll_No':'1', 'Name': 'Kuriakose','Age': 20},
            {'Roll_No':'2', 'Name': 'Ashwin','Age': 20},
            {'Roll_No':'3', 'Name': 'Christo','Age': 20},
            {'Roll_No':'4', 'Name': 'Nayana','Age': 20},
            {'Roll_No':'5', 'Name': 'Subin','Age': 20}
]

with open('Names.csv','w') as f:
    writer=csv.DictWriter(f,fieldnames=field_names)
    writer.writeheader()
    writer.writerows(stud_dict)

data=pandas.read_csv('Names.csv')
print(data)
```

OUTPUT

| | Roll No | Name | Age |
|---|---------|-----------|-----|
| 0 | 1 | Kuriakose | 20 |
| 1 | 2 | Ashwin | 20 |
| 2 | 3 | Christo | 20 |
| 3 | 4 | Nayana | 20 |
| 4 | 5 | Subin | 20 |