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)
   ```

   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)
```

OUTPUT

```
Original file data

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
```

Odd file data

Muthoot Institute of Technology and Science
Address: Kochi-Madurai-Tondi Point Rd, Puthenkurish, Varikoli, Kochi, Kerala 682308

Even file data

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

DATE : 21-10-2023

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)
```

OUTPUT

```
['Roll No Name Age']
['1', 'Divya', '20']
['2', 'Yadu', '20']
['3', 'Rach', '20']
['4', 'pooja', '20']
['5', 'Dhrisya', '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', 'Divya', '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': 'Divya','Age': 20},
{'Roll_No':'2', 'Name': 'Ani','Age': 20},
{'Roll_No':'3', 'Name': 'Yadu','Age': 20},
{'Roll_No':'4', 'Name': 'Dhrisya','Age': 20},
{'Roll_No':'5', 'Name': 'Pooja','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	Divya	20
1	2	Ani	20
2	3	Yadu	20
3	4	Dhrisya	20
4	5	Pooja	20