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,', 'Puthencruz,', 'Varikoli,', 'Kochi,', 'Kerala', '682308'], ['Phone:', '0484', '273', '2111'], ['Website:', 'mgmits.ac.in']]

DATE : 16-10-2023

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

PROGRAM

```
sfile=open("stud.txt","r")
ofile=open ("odd.txt","w")
efile=open ("even.txt","w")
contents=sfile.readlines()
print(contents)
for i in range(len(contents)):
    if (i%2==0):
         efile.write(contents[i])
    else:
         ofile.write(contents[i])
sfile.close()
ofile.close()
efile.close()
```

OUTPUT

Original file data(stud.txt)

Muthoot Institute of Technology and Science
Puthencruz, Varikoli,
Kochi, Kerala 682308
Phone: 0484 273 2111
Website: mgmits.ac.in

Odd file data(odd.txt)

Muthoot Institute of Technology and Science
Kochi, Kerala 682308
Website: mgmits.ac.in

Even file data(even.txt)

Puthencruz, Varikoli,
Phone: 0484 273 2111

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', 'Aparna', '21']
['2', 'Anu', '22']
['3', 'Priya', '21']
['4', 'John', '21']
['5', 'Janani', '22']
```

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', 'Aparna', '21']
```

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': 'Aparna','Age': 21},
{'Roll_No':'2', 'Name': 'Anu','Age': 22},
{'Roll_No':'3', 'Name': 'Priya','Age': 21},
{'Roll_No':'4', 'Name': 'John','Age': 21},
{'Roll_No':'5', 'Name': 'Janani','Age': 22}
]

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	Aparna	21
1	2	Anu	22
2	3	Priya	21
3	4	John	21
4	5	Janani	22