

## COURSE OUTCOME-5

**DATE: 26/11/2024**

- 1. Write a Python program to read a file line by line and store it into a list.**

### **PROGRAM**

**file1.txt**

MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE VARIKOLI  
ERNAKULAM DISTRICT  
SANDRIYA JOSHY  
MCA

**pgm1.py**

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

### **OUTPUT**

```
[['MUTHOOT', 'INSTITUTE', 'OF', 'TECHNOLOGY', 'AND', 'SCIENCE',  
'VARIKOLI'], ['ERNAKULAM', 'DISTRICT'], ['SANDRIYA', 'JOSHY'], ['MCA']]
```

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## **2. Python program to copy odd lines of one file to other**

### **PROGRAM**

**file1.txt**

MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE VARIKOLI  
ERNAKULAM DISTRICT  
SANDRIYA JOSH  
MCA

**pgm2.py**

```
f=open("file1.txt","r")
g=open("file2.txt","w")
print("Odd lines of File1 which are in File2:")
lno=1
for line in f:

    if lno%2!=0:
        g.write(line)
        lno=lno+1

g.close()
g=open("file2.txt","r")
print(g.read())
g.close()
f.close()
```

### **OUTPUT**

Odd lines of File1 which are in File2:  
MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE VARIKOLI  
SANDRIYA JOSH  
MCA

**DATE: 28/11/2024**

**3. Write a program to read each row from the CSV file and print a list of strings**

### **PROGRAM**

#### **student.csv**

```
Rollno,Name,Age,Course
101,Sandriya,21,MCA
102,Anna,21,MCA
103,Avlin,21,MCA
104,Christy,21,MCA
```

#### **CSVpgm.py**

```
import csv
with open("student.csv",mode="r") as f:
    csvr=csv.reader(f)
    for row in csvr:
        print(row)
```

### **OUTPUT**

```
['Rollno', 'Name', 'Age', 'Course']
['101', 'Sandriya', '21', 'MCA']
['102', 'Anna', '21', 'MCA']
['103', 'Avlin', '21', 'MCA']
['104', 'Christy', '21', 'MCA']
```

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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**

#### **student.csv**

Rollno,Name,Age,Course  
101,Sandriya,21,MCA  
102,Anna,21,MCA  
103,Avlin,21,MCA  
104,Christy,21,MCA

#### **pgm4.py**

```
import csv
with open("student.csv",mode="r") as f:
    csvr=csv.reader(f)
    print(" CSV File ")
    for row in csvr:
        print(row)
f.close()
f=open("student.csv","r")
col=csv.reader(f)
print("\nSpecific columns from CSV file")
print("-----")
for i in col:
    print(i[1],i[3])
f.close()
```

### **OUTPUT**

CSV File

```
['Rollno', 'Name', 'Age', 'Course']
['101', 'Sandriya', '21', 'MCA']
['102', 'Anna', '21', 'MCA']
['103', 'Avlin', '21', 'MCA']
['104', 'Christy', '21', 'MCA']
```

Specific columns from CSV file

```
-----
Name Course
Sandriya MCA
Anna MCA
Avlin MCA
Christy MCA
```

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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**

#### **pgm5.py**

```
import csv
mydict=[{'branch':'COE','cgpa':'9.0','name':'Nikhil','year':'2'},
        {'branch':'IT','cgpa':'8.9','name':'Anu','year':'2'},
        {'branch':'SE','cgpa':'9.2','name':'Rahul','year':'3'},
        {'branch':'COE','cgpa':'9.5','name':'Miya','year':'2'},
        {'branch':'IT','cgpa':'8.8','name':'Tom','year':'1'},
        {'branch':'SE','cgpa':'8.6','name':'Jerry','year':'1'}]
fields=['name','branch','year','cgpa']
filename="records.csv"
with open(filename,"w") as f:
    writer=csv.DictWriter(f,fieldnames=fields)
    writer.writeheader()
    writer.writerows(mydict)
f.close()
with open("records.csv","r") as f:
    row=csv.reader(f)
    print("Contents in the created CSV file:")
    for i in row:
        print(i)
f.close()
```

### **OUTPUT**

#### **records.py**

```
name,branch,year,cgpa
Nikhil,COE,2,9.0
Anu,IT,2,8.9
Rahul,SE,3,9.2
Miya,COE,2,9.5
Tom,IT,1,8.8
Jerry,SE,1,8.6
```

Contents in the created CSV file:

```
['name', 'branch', 'year', 'cgpa']
['Nikhil', 'COE', '2', '9.0']
['Anu', 'IT', '2', '8.9']
['Rahul', 'SE', '3', '9.2']
['Miya', 'COE', '2', '9.5']
['Tom', 'IT', '1', '8.8']
['Jerry', 'SE', '1', '8.6']
```