**CO-5 PROGRAMS**

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

f1=open("firstfile.txt","w")

f1.write("This is my first file in python.\nWant to work with files\nThis is my third line")

f1.close()

f1=open("firstfile.txt","r")

print("Name of file:",f1.name)

print("Close of file:",f1.close)

print("Mode of file:",f1.mode)

print(f1.read())

print("------------------")

f1.seek(0,0)

print(f1.read(15))

print(f1.readline())

print(f1.readline())

f1.seek(0,0)

ff=f1.readlines()

print(ff)

print("No of lines : ",len(ff))

print("------------------")

#import os

#os.rename("firstfile.txt","secfile.txt")

#print(f1.name)

#f1.close()

**OUTPUT**

Name of file: firstfile.txt

Close of file: <built-in method close of \_io.TextIOWrapper object at 0x000002895B956260>

Mode of file: r

This is my first file in python.

Want to work with files

This is my third line

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This is my firs

t file in python.

Want to work with files

['This is my first file in python.\n', 'Want to work with files\n', 'This is my third line']

No of lines : 3

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

f1 = open("firstfile.txt","r")

for x in f1:

print(x)

print("---------------")

f1.seek(0,0)

ff=f1.readlines()

print("Looping through the file using Readline")

for x in range(0,len(ff)):

if(x%2==0):

print(ff[x])

print("---------------")

f2= open("Even.txt","w")

f2.write(ff[x])

**OUTPUT**

This is my first file in python.

Want to work with files

This is my third line

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Looping through the file using Readline

This is my first file in python.

This is my third line

**3. Write a Python program to read each row from a given csv file and print a list of strings**

import csv

# csv file name

filename = "username.csv"

# initializing the titles and rows list

fields = []

rows = []

# reading csv file

cf=open(filename, 'r')

# creating a csv reader object

csvreader = csv.reader(cf)

# extracting field names through first row

fields = next(cf)

print(fields)

# extracting each data row one by one

for r in csvreader:

rows.append(r)

#print the list containing the rows of csv file

print(rows)

print("...............")

print('\nFirst 3 rows are:\n')

for r in rows[:3]:

print(\*r)

print()

print("The file content")

for sl in rows:

for l in sl:

print(l),

#print(l,end=" ")

print()

cf.close()

**Output**

Username; Identifier;Firstname;Lastname

[['booker12;9012;Rachel;Booker'], ['grey07;2070;Laura;Grey'], ['johnson81;4081;Craig;Johnson'], ['jenkins46;9346;Mary;Jenkins'], ['smith79;5079;Jamie;Smith']]

...............

First 3 rows are:

booker12;9012;Rachel;Booker

grey07;2070;Laura;Grey

johnson81;4081;Craig;Johnson

The file content

booker12;9012;Rachel;Booker

grey07;2070;Laura;Grey

johnson81;4081;Craig;Johnson

jenkins46;9346;Mary;Jenkins

smith79;5079;Jamie;Smith

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

import csv

filename = "names.csv"

cf=open(filename, 'r')

#csvreader = csv.reader(cf)

data = csv.DictReader(cf)

print("No Company")

for r in data:

print(r['No'], r['Company'])

**output**

No Company

1 Ferrari

2 Porsche

3 Bugatti

4 Rolls Royce

5 BMW

**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.**

import csv

field\_names = ['No', 'Company', 'Car Model']

cars = [

{'No': 1, 'Company': 'Ferrari', 'Car Model': '488 GTB'},

{'No': 2, 'Company': 'Porsche', 'Car Model': '918 Spyder'},

{'No': 3, 'Company': 'Bugatti', 'Car Model': 'La Voiture Noire'},

{'No': 4, 'Company': 'Rolls Royce', 'Car Model': 'Phantom'},

{'No': 5, 'Company': 'BMW', 'Car Model': 'BMW X7'},

]

with open('Names1.csv', 'w') as csvfile:

writer = csv.DictWriter(csvfile, fieldnames = field\_names)

writer.writeheader()

writer.writerows(cars)

#print(".................")

filename = "names1.csv"

cf=open(filename, 'r')

rows=[]

csvreader = csv.reader(cf)

for r in csvreader:

rows.append(r)

for r in rows[:3]:

print(\*r)

**output**

No Company Car Model

1 Ferrari 488 GTB