**Experiment No.: 1 Date : 28-10-2022**

**Aim:** To read a file content and store it into a list.

**CO5:** Create files and form regular expressions for effective search operations on strings and files.

**Procedure:**

# program to read file content and store it into a list.

# using readlines()

open\_file = open("test.txt", 'r')

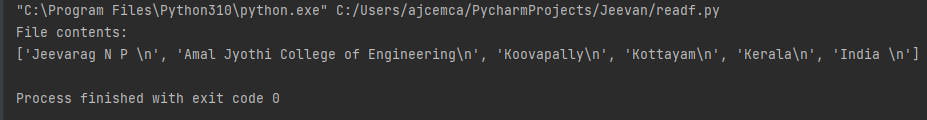
file\_lines = open\_file.readlines()

print("File contents: ")

print(file\_lines)

open\_file.close()

**Output Screenshot**

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**Result**

The program was executed and the result was successfully obtained. Thus, CO5 was obtained.

**Experiment No.: 2 Date : 28-10-2022**

**Aim:** To read a file content and store it into a list using strip().

**CO5:** Create files and form regular expressions for effective search operations on strings and files.

**Procedure:**

# program to read file content and store it into a list.

# using readlines()

open\_file = open("test.txt", 'r')

file\_lines = open\_file.readlines()

# print without strip

print("File contents with newline character: ")

print(file\_lines)

# print with strip

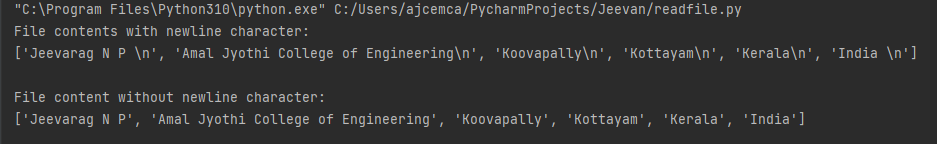
print("\nFile content without newline character: ")

file\_lines = [x.strip() for x in file\_lines]

print(file\_lines)

open\_file.close()

**Output Screenshot**

****

**Result**

The program was executed and the result was successfully obtained. Thus, CO5 was obtained.

**Experiment No.: 3 Date : 28-10-2022**

**Aim:** Python program to copy odd lines of one file to another.

**CO5:** Create files and form regular expressions for effective search operations on strings and files.

**Procedure:**

# program to copy odd lines of one file to another.

# opening files for reading and writing data.

input\_file = open('Data.txt')

output\_file = open('WriteData.txt', 'w')

# copying/reading from read file to copy\_data

copy\_data = input\_file.readlines()

print("\nActual file content is :")

print([x.strip() for x in copy\_data])

for i in range(0, len(copy\_data)):

if i % 2 == 0:

output\_file.write(copy\_data[i])

else:

pass

# Closing file after writing

output\_file.close()

# opening write file in read mode and printing values

output\_file = open('WriteData.txt', 'r')

print("\nOdd lines are:")

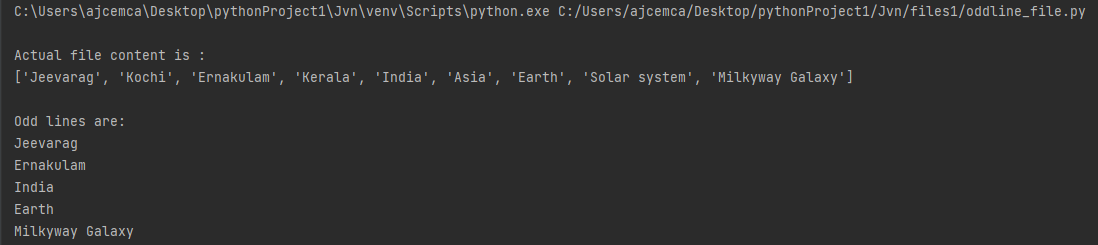
print(output\_file.read())

# closing files

input\_file.close()

output\_file.close()

**Output Screenshot**

****

**Result**

The program was executed and the result was successfully obtained. Thus, CO5 was obtained.

**Experiment No.: 3 Date : 28-10-2022**

**Aim:** Python program to copy odd lines of one file to another.

**CO5:** Create files and form regular expressions for effective search operations on strings and files.

**Procedure:**

# program to copy odd lines of one file to another.

# opening files for reading and writing data.

input\_file = open('Data.txt')

output\_file = open('WriteData.txt', 'w')

# copying/reading from read file to copy\_data

copy\_data = input\_file.readlines()

print("\nActual file content is :")

print([x.strip() for x in copy\_data])

for i in range(0, len(copy\_data)):

if i % 2 == 0:

output\_file.write(copy\_data[i])

else:

pass

# Closing file after writing

output\_file.close()

# opening write file in read mode and printing values

output\_file = open('WriteData.txt', 'r')

print("\nOdd lines are:")

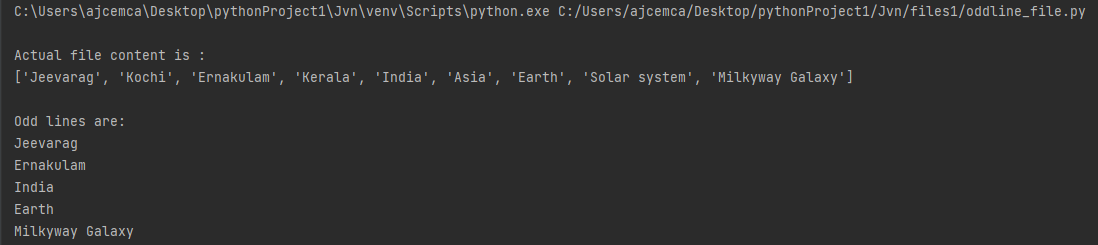
print(output\_file.read())

# closing files

input\_file.close()

output\_file.close()

**Output Screenshot**

****

**Result**

The program was executed and the result was successfully obtained. Thus, CO5 was obtained.

**Experiment No.: 4 Date : 28-10-2022**

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

**CO5:** Create files and form regular expressions for effective search operations on strings and files.

**Procedure:**

import csv

# Open the csv file

with open('datas1.csv', 'r') as file:

# Create a CSV reader

reader = csv.reader(file)

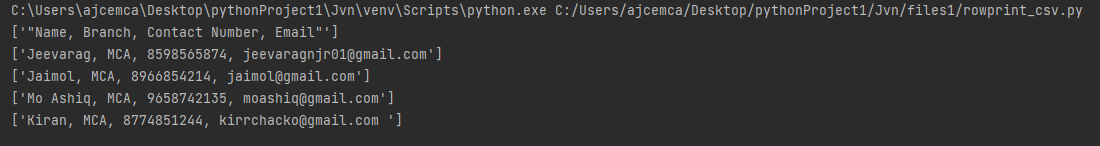
# iterate over the rows of the CSV file

for row in reader:

# print the row as a list of strings

print(row)

**Output Screenshot**

****

**Result**

The program was executed and the result was successfully obtained. Thus, CO5 was obtained.

**Experiment No.: 5 Date : 28-10-2022**

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

**CO5:** Create files and form regular expressions for effective search operations on strings and files.

**Procedure:**

import csv

# specify the column indices that you want to read

columns\_to\_read = [0,2]

# open the CSV file and read the contents

with open('demo.csv', 'r') as file:

clmn\_reader = csv.reader(file)

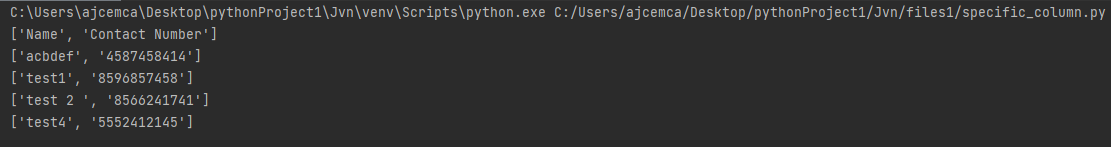
# iterate over the rows of the CSV

for row in clmn\_reader:

# print the contents of the specified columns

print([row[i] for i in columns\_to\_read])

**Output Screenshot**

****

**Result**

The program was executed and the result was successfully obtained. Thus, CO5 was obtained.

**Experiment No.: 3 Date : 28-10-2022**

**Aim:** 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.

**CO5:** Create files and form regular expressions for effective search operations on strings and files.

**Procedure:**

# Write a python program to write a python dictionary to a CSV file.

# After writing the CSV file read and display the content.

import csv

# Data to be inserted

data = [{'Name': 'Jeevan', 'Age': '21', 'Country': 'India'},

{'Name': 'Ashiq', 'Age': '22', 'Country': 'India'},

{'Name': 'Kiran', 'Age': '23', 'Country':'India'}]

# Write to CSV file

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

headernames = ['Name', 'Age', 'Country']

csvwriter = csv.DictWriter(csvfile, fieldnames=headernames)

csvwriter.writeheader()

for row in data:

csvwriter.writerow(row)

# read from CSV file and print contents

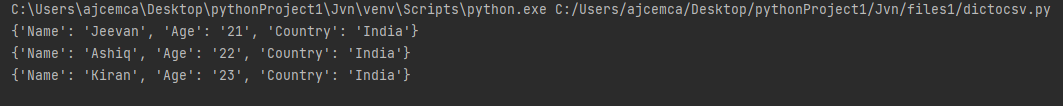
with open('people.csv', 'r') as csvfile:

reader = csv.DictReader(csvfile)

for row in reader:

print(row)

**Output Screenshot**

****

**Result**

The program was executed and the result was successfully obtained. Thus, CO5 was obtained.