LAB CYCLE-7

Program 1

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```
Aim:
Write a Python program to read a file line by line and store it into a list.
Source Code:
Samplefile.txt
Hello World!
This is Python Programming.
File Handling in Python.
Regular Expressions in python.
Pg1.py
file_name = "Samplefile.txt"
with open(file_name, 'r') as file:
  lines_list = [line.strip() for line in file]
print("Lines stored in the list:")
print(lines_list)
Output:
         Appriliar, private britain elemented ammenda elemente elemente
Lines stored in the list:
['Hello World !', 'This is Python Programming.', 'File Handling in Python.', 'Regular Expressions in python.']
```

File Handling in Python.

Aim: Python program to copy odd lines of one file to other. **Source Code:** Samplefile.txt Hello World! This is Python Programming. File Handling in Python. Regular Expressions in python. Pg2.py source_file = "Samplefile.txt" target_file = "odd_file.txt" with open(source_file, 'r') as source, open(target_file, 'w') as target: for line_number, line in enumerate(source, start=1): if line_number % 2 != 0: # Check if the line number is odd target.write(line) # Write the odd line to the target file print(f"Odd lines have been copied from {source_file} to {target_file}.") **Output:** Odd lines have been copied from Samplefile.txt to odd file.txt. >>> Odd_file.txt Hello World!

Aim:

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

Source Code:

```
Details.csv
```

Name, Age, District

Arun, 20, Thrissur

Aravind,21,Kollam

Shamil,20,Malappuram

Pg3.py

```
import csv
file_name = "details.csv"
with open(file_name, 'r') as csv_file:
    reader = csv.reader(csv_file)
    for row in reader:
        print(row) # Each row is printed as a list of strings
```

Output:

```
['Name', 'Age', 'District']
['Arun', '20', 'Thrissur']
['Aravind', '21', 'Kollam']
['Shamil', '20', 'Malappuram']
>>>
```

Aim:

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

Source Code:

```
import csv
file_name = "details.csv"
columns_to_read = [0, 2]
with open(file_name, 'r') as csv_file:
    reader = csv.reader(csv_file)
    for row in reader:
        selected_columns = [row[i] for i in columns_to_read]
        print(selected_columns)
```

Output:

```
['Name', 'District']
['Arun', 'Thrissur']
['Aravind', 'Kollam']
['Shamil', 'Malappuram']
>>>
```

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.

Source Code:

```
import csv
data = [
  {"Name": "Ajay", "Age": 21, "District": "Kannur"},
  {"Name": "Sujith", "Age": 21, "District": "Palakkad"},
  {"Name": "George", "Age": 22, "District": "Alappuzha"}
]
file_name = "output.csv"
with open(file_name, 'w', newline=") as csv_file:
  writer = csv.DictWriter(csv_file, fieldnames=data[0].keys())
  writer.writeheader() # Write the header row
  writer.writerows(data) # Write the data rows
print(f"Dictionary written to {file_name}.")
print("\nReading and displaying the CSV file content:")
with open(file_name, 'r') as csv_file:
  reader = csv.reader(csv_file)
  for row in reader:
     print(row)
```

Output:

```
Dictionary written to output.csv.

Reading and displaying the CSV file content:

['Name', 'Age', 'District']

['Ajay', '21', 'Kannur']

['Sujith', '21', 'Palakkad']

['George', '22', 'Alappuzha']

>>>
```