Experiment 4

AIM

Write a Python program

- Create two new files f1 and f2
- Read and Display the contents of files f1 and f2
- Create and display the file f3 which is a combination of f1 and f2.

Description

Functions used open() : this function opens a file, and returns it as file object

Syntax: open("file_name", mode)

write() : writes a string to a file.

Syntax FileObject.write(str)

read() : reads at most size bytes from the file. If the read hits EOF before obtaining size bytes, then it reads only available bytes.

Syntax fileObject.read()

Program

```
lst1 = ['Aug','Sep','Oct','Nov','Sep','Jul','Aug','Sep']
lst2 = [1,2,3,4, 2,4,4,1]


# Write list lst1 into file file1.txt and
with open("file1.txt", mode = "w") as f1:
  for item in lst1:
    f1.write(item + '\n')


# Write list lst2 into file file2.txt
with open('file2.txt', mode = "w") as f2:
  for item in lst2:
    f2.write(f'{item}\n')


# deleting lst1 and lst2
del lst1, lst2


# Read contents of file1.txt and display them
```

```
print('Contents of file1.txt:')
with open("file1.txt", mode = 'r') as f1:
  print(f1.read())
```

```
Contents of file1.txt:
Aug
Sep
Oct
Nov
Sep
Jul
Aug
Sep
```

```
# Read contents of file2.txt and display them
print('Contents of file2.txt:')
with open("file2.txt", mode = 'r') as f2:
  print(f2.read())
```

```
Contents of file2.txt:
1
2
3
4
2
4
4
1
```

```
# Create a file3.txt, which is a combination of file1.txt and file2.txt
with open("file1.txt", mode = "r") as f1:
  with open("file2.txt", mode = "r") as f2:
    with open("file3.txt", mode  = "w") as f3:
      for l1,l2 in zip(f1,f2):
                l1 = l1.strip()
                l2 = l2.strip()
                print(f"{l2} {l1} 2020", file=f3)
```

```
# Display contents of file3.txt
with open("file3.txt", mode = "r") as f3:
  print(f3.read())
```

```
1 Aug 2020
2 Sep 2020
3 Oct 2020
4 Nov 2020
2 Sep 2020
4 Jul 2020
4 Aug 2020
1 Sep 2020
```

```
# Create a file4.txt, which is a combination of file1.txt and file2.txt
with open("file1.txt", mode = "r") as f1:
  with open("file2.txt", mode = "r") as f2:
    with open("file4.txt", mode  = "w") as f4:
      for l1 in f1:
        f4.write(f'{l1}')
      for l2 in f2:
        f4.write(f'{l2}')

# Display contents of file4.txt
with open("file4.txt", mode = "r") as f4:
  print(f4.read())
```

```
Aug
Sep
Oct
Nov
Sep
Jul
Aug
Sep
1
2
3
4
2
4
4
1
```

Conclusion

Double-click (or enter) to edit

Evaluation

Criteria	Total Marks	Marks Obtained	Comments
Concept(A)	2		
Implementation(B)	2		
Performance(C)	2		
Total	6		

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