

## CSET214(P) - 02 Sep 2024 - File Handling - Arihant Gupta

### Question 1:

**1. WAP in Python to accomplish the following task.**

- a) Open the text file1 in read, write and append mode; also read the contents of the file1.
- b) Open the water.png file in binary mode, read all lines of png file and print the size of file.
- c) Read only the first 4 characters of file1.
- d) Return all lines of file1 as elements of a list (each line must be an item of list).
- e) Finally close the text and png file.

### Code Snippet:

```
1 file = open("Practical\\02sep\\file1.txt", 'r')
2 file2 = open("Practical\\02sep\\water.png", "rb")
3 def q1():
4     # When opening in write mode, the file is completely cleared, because existing data is overwritten
5     for each in file:
6         print(each)
7
8 def q2():
9     img_txt = file2.read()
10    print(img_txt)
11    print(f"{len(img_txt)} is the size of the image")
12
13 def q3():
14    print(file.read(4))
15
16 def q4():
17    l = [i for i in file]
18    print(l)
19
20
21 file.close()
22 file2.close()
23
```

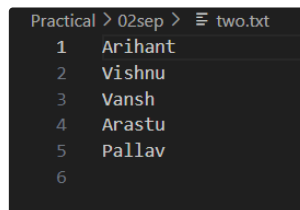
### Output:



2. a) Put the names of your five friends in a list using for loop and write the contents of the list to a text file. Now read the contents of the file.
- b) Write a program in Python to create a binary file first.bin and write the first five natural numbers in the binary file first.bin; finally print the contents of the binary file.

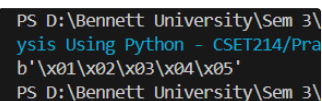
```
1 def q1():
2     l = []
3     # l2 = ["Arihant\n", "Arastu\n", "Vansh\n", "Vishnu\n", "Pallav\n"]
4     for i in range(5):
5         x = str(input("Enter name of friend: "))
6         l.append(x+"\n")
7
8     file = open("Practical\\02sep\\two.txt", "a")
9
10    for i in l:
11        file.write(i)
12
13    def q2():
14        data = [1,2,3,4,5]
15        with open('Practical\\02sep\\one.bin', 'wb') as file:
16            file.write(bytes(data))
17
18        with open("Practical\\02sep\\one.bin", "rb") as f:
19            data = f.read()
20
21        print(data)
22
23    q2()
24
```

**Output:**



```
Practical > 02sep > two.txt
1 Arihant
2 Vishnu
3 Vansh
4 Arastu
5 Pallav
6
```

part (a) output



```
PS D:\Bennett University\Sem 3\
ysis Using Python - CSET214\Practicals>
b'\x01\x02\x03\x04\x05'
PS D:\Bennett University\Sem 3\
```

part (b) output

### Question 3:

**3. WAP in Python to accomplish the following task.**

- Create two files and read the content of one file and write it to the other file.
- Write a program in Python that can count the number of occurrences of the words "this" in file1.
- Print the current working directory.

```
1 import os
2 cs = os.getcwd()
3
4 file1 = open("Practical\\02sep\\f1.txt", "r")
5 file2 = open("Practical\\02sep\\f2.txt", "a")
6
7 data = file1.read()
8 file2.write(data)
9
10 print(data.count("this"))
11
12 print(f"Current working directory is: {cs}")
13
14
```

### Output:

```
ysis Using Python - CSET214/Practical/02sep/3.py"
2
Current working directory is: D:\Bennett University\Sem 3\Data Analysis Using Python - CSET214
PS D:\Bennett University\Sem 3\Data Analysis Using Python - CSET214> █
```

Occurrence of "this"

```
Practical > 02sep > f1.txt
1 My name is Arihant Gupta, this is a good boy. this boy likes to eat.
```

the text file

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