

PFP - Labwork 04

Q1 (2.5 marks). Write a program that performs the following tasks:

1. Create a new empty text file named 'sales.txt'

Name	Date modified	Type	Size
Hello	12/17/2021 4:32 PM	File folder	
Labworks	12/20/2021 9:09 AM	File folder	
circle.py	12/14/2021 5:01 PM	Python File	1 KB
hello.py	12/17/2021 4:21 PM	Python File	1 KB
hello.txt	12/17/2021 5:34 PM	Text Document	0 KB
sales.txt	12/20/2021 11:16 AM	Text Document	0 KB

2. Create File with a DateTime

```
created 20-12-2021.txt
created 20-12-2021-11-20-04.txt
created C:\Exercices\20-12-2021-11-20-04.txt
```

3. Create a file with Permission.

sales.txt	12/20/2021 11:16 AM	Text Document	0 KB
sample.txt	12/20/2021 11:26 AM	Text Document	1 KB

Q2 (2.5 marks). Write a program that performs the following tasks:

1. Write to a new file
 - Open file in write mode
 - Write content into the file
 - Write to a Text file in Python

```
Done Writing
This is new content
```

2. Writing To An Existing File

```
C:\Exercices>C:/Users/AD/AppData/Local/Programs/Python/Python39/python.exe c:/Exercices/Labworks/Lab04/Q2.2.py
This is new content
Opening file again..
This is overwritten content
```

3. Write a list of lines to a file

```
C:\Exercices>C:/Users/AD/AppData/Local/Programs/Python/Python39/python.exe c:/Exercices/Labworks/Lab04/Q2.3.py
Name: Emma
Address: 221 Baker Street
City: London
```

Q3. (2.5 marks). Write a program that performs the following tasks:

1. Seek the Beginning of the File



2. Seeking The End of File

```
C:\Exercices>C:/Users/AD/AppData/Local/Programs/Python/Python39/python.exe c:/Exercices/Labworks/Lab04/Q3.2.py
My First Line
My Second Line
This content is added to the end of the file
```

3. Seek From The Current Position

```
C:\Exercices>C:/Users/AD/AppData/Local/Programs/Python/Python39/python.exe c:/Exercices/Q3.3.py
First
Second
```

4. Seek backward With Negative Offset



```
C:\Exercices>C:/Users/AD/AppData/Local/Programs/Python/Python39/python.exe c:/Exercices/Labworks/Lab04/Q3.4.py
My First
First Line
```

5. Use tell() Function To Get File Handle Position

```
C:\Exercices>C:/Users/AD/AppData/Local/Programs/Python/Python39/python.exe c:/Exercices/Labworks/Lab04/Q3.5.py
file handle at: 75
file handle at: 95
file handle at: 0
***Printing File Content***
My First Line
My Second Line
This content is added to the end of the file
Demonstrating tell
***Done***
file handle at: 95
```

Q4. (2.5 marks). Write a program that performs the following tasks:

1. Rename a file after checking whether it exists

Name	Date modified	Type	Size
 new_details.txt	12/20/2021 11:51 AM	Text Document	0 KB
 test.txt	12/20/2021 11:48 AM	Text Document	1 KB




2. Rename Multiple Files in Python

```
C:\Exercices>C:/Users/AD/AppData/Local/Programs/Python/Python39/python.exe c:/Exercices/Labworks/Lab04/Q4.2.py
All Files Renamed
New Names are
['sales_1.txt', 'sales_2.txt']
```

3. Renaming only a list of files in a folder

```
C:\Exercices>C:/Users/AD/AppData/Local/Programs/Python/Python39/python.exe c:/Exercices/Labworks/Lab04/Q4.3.py
['sales_1_new.txt', 'sales_2.txt']
```

4. Renaming files with a timestamp


Name	Date modified	Type	Size
 sales_1_new.txt	12/20/2021 11:51 AM	Text Document	0 KB
 sales_2.txt	12/20/2021 11:48 AM	Text Document	1 KB
 sales20-Dec-2021.txt	12/20/2021 11:58 AM	Text Document	0 KB

5. Renaming the Extension of the Files

```
C:\Exercices>C:/Users/AD/AppData/Local/Programs/Python/Python39/python.exe c:/Exercices/Labworks/Lab04/Q4.5.py
Before rename
['sales20-Dec-2021.txt', 'sales_1_new.txt', 'sales_2.txt']
After rename
['sales20-Dec-2021.pdf', 'sales_1_new.pdf', 'sales_2.pdf']
```

6. Renaming and then moving a file to a new location

Local Disk (C:) > Exercices > new_demo

^	Name	Date modified	Type	Size
	 expense.txt	12/20/2021 12:02 PM	Text Document	0 KB

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