

(CL1002) Programming Fundamentals Lab

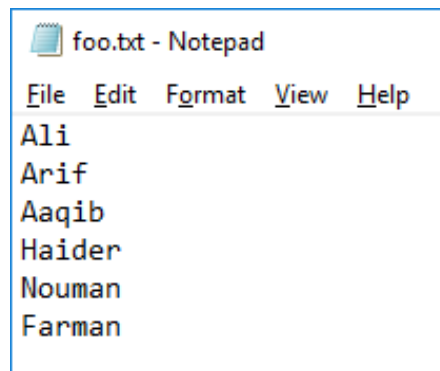
Lab 12: File Handling

- Before doing the task, I recommend you all to go through the lab manual. It will make it easy for you all to understand this.
- Copied task will be awarded **zero** marks.
- Upload only a MS word and PDF file including all tasks source code and its output (screen shot).
- You have to copy the source code in your word file. Don't take the screen shot of source code.
- Use the following format for naming the word file Rollno_name (21P-1234_zain).
- Comment your code properly

1. The file **names.txt** contains a list of names, one per line.

- a. Write a program that start printing the first 4 character of every name in a file (names.txt).
- b. Write a program that prints the sum of the lengths of the names in names.txt.
- c. Write a program that prints the average of the lengths of the names in names.txt.
- d. Write a program that reads in the names form names.txt and prints the shortest name along with its length.
- e. Write a python **function** that reads in the names in names.txt and prints all the names that have the length given as a parameter e.g print_name(5)

Input file



```
foo.txt - Notepad
File Edit Format View Help
Ali
Arif
Aaqib
Haider
Nouman
Farman
```

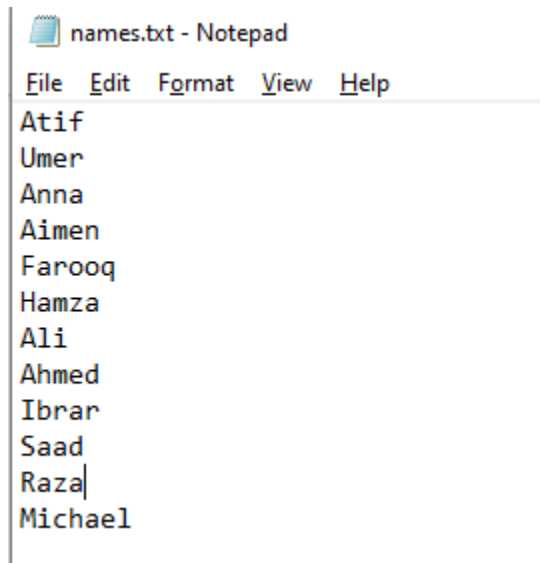
Output:

In [51]: `print_name(6)`

```
Haider
Nouman
Farman
```

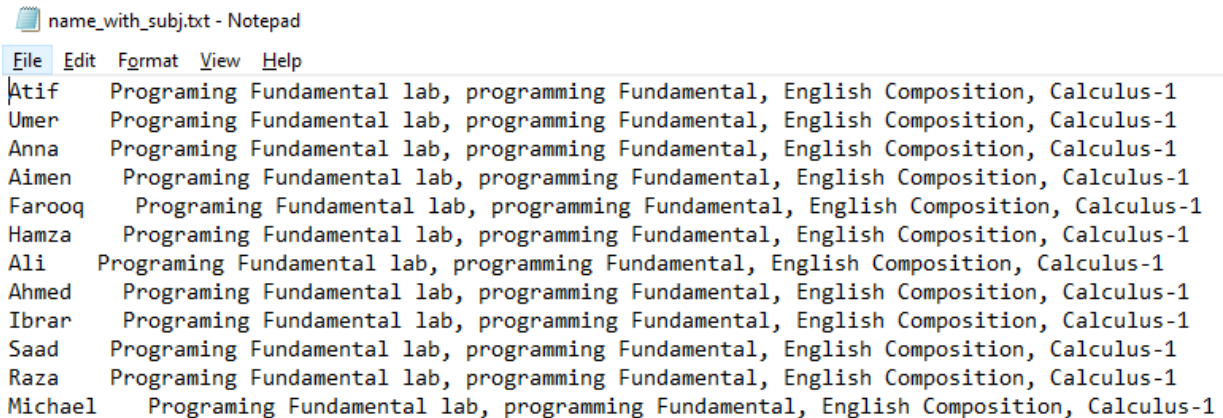
- f. Write a program that reads in the names in names.txt and writes out a file at name_subj.txt containing the names along with subject's name, one per line, in the corresponding order.

Input file:



```
names.txt - Notepad
File Edit Format View Help
Atif
Umer
Anna
Aimen
Farooq
Hamza
Ali
Ahmed
Ibrar
Saad
Raza
Michael
```

Output file:



A screenshot of a Notepad window titled 'name_with_subj.txt - Notepad'. The window contains a list of names and their associated subjects, separated by a tab character. The subjects are: 'Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1'. The names listed are: Atif, Umer, Anna, Aimen, Farooq, Hamza, Ali, Ahmed, Ibrar, Saad, Raza, and Michael.

Name	Subjects
Atif	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Umer	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Anna	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Aimen	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Farooq	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Hamza	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Ali	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Ahmed	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Ibrar	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Saad	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Raza	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1
Michael	Programing Fundamental lab, programming Fundamental, English Composition, Calculus-1

- g. Write a python **function** that reads in the names in names.txt. Your function should ask user to enter a name to search if the input is in file your function should return true otherwise it should return false.

Sample Output:

```
In [69]: 1 search_key()
```

```
Enter the name you want to search
Ali
```

```
Out[69]: True
```

```
In [70]: 1 search_key()
```

```
Enter the name you want to search
Aslam
```

```
Out[70]: False
```

2. Write a python program that display the menu of restaurant. Ask the user to choose the item from the menu list i-e Espresso, over Ice , fusion etc. let's assume user have selected over ice option show the menu along with the prices for regular as well as small. Ask for the item name, size, and quantity. After that your program should ask again choose the item from the menu list 1-e Espresso, over Ice, fusion etc. and keep choosing until user press N or enter no. Once user done with the menu display the total bill that includes the total price and tax along with service charge. Also write the final bill in bill.txt.

Menu is given below.



Signature CHILLER Bar

ESPRESSO & MOCHA CHILLERS

OUR SIGNATURE CHILLERS ARE LOVED ACROSS 39 COUNTRIES OF THE WORLD

	Small	Regular
VERY VANILLA CHILLER	361	409
COCOA LOCO	361	409
COOKIES N' CREAM		
HAZELNUT MOCHA CHILLER	396	461
CHOCOLATE MACADAMIA CHILLER		
ITALIAN DOLCE CHILLER		
CARAMEL NUT CHILLER		
TIRAMISU CHILLER	399	509
TOFFEE NUT CHILLER		

CHOCOLATE CHILLERS

GET A TASTE OF OUR PREMIUM CHOCOLATE

	Small	Regular
ORIGINAL ICED CHOCOLATE	348	365
WHITE ICED CHOCOLATE		
CHOCOLATE DELIGHT	348	400



OVER ICE

ICED COFFEE, LEMONADES & ICED TEAS

	Small	Regular
SIGNATURE ICED COFFEE	300	374
ICED MOCHA	300	361
ICED CARAMEL LATTE	378	430
ICED AMERICANO	252	274
BLUEBERRY LEMONADE*	250	291
LYCHEE LEMONADE*		
GREEN APPLE LEMONADE*		
PEACH LEMONADE*		
APPLE SODA*	335	348
LIME SODA*	335	361
ICED TEAS (Peach / Lemon / Lychee)*	239	291

FUSION

MIX UP OUR BEST FOR A UNIQUE EXPERIENCE

	Small	Regular
ICED LIME*	335	365
APPLE CHILLER*		
CHAI CHILLER	348	400
GREEN TEA CHILLER		



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OUR MOBILE APPLICATION TO GET AMAZING
OFFERS AT GLORIA JEAN'S COFFEES



WE ARE LOCATED AT **GULSHAN 1**
S.M. 04, HOUSE 35, GANSHAN AVENUE
DHAKA-1212

GULSHAN 2
HOUSE 28, BLOCK METRO, ROAD 71
GULSHAN NORTH AVENUE, DHAKA 1212

DIHAMONDY
67 (NEW), 747 (OLD), 6TH FLOOR (1ST FLOOR)
SATHASID ROAD, DHAKA-1209