

CL1002 – Programming Fundamentals Lab

Exercise # 12

Note:

- Submit a pdf file containing all of your C code with all possible screenshots of every task outputs on Google Classroom.
- Copied task will be awarded **zero** marks.
- Note that these lab task marks could be graded through a viva in lab.
- Please submit your file with this naming convention (roll-no-name) i.e (22P-8743-Zain.pdf).

Problem: 1

Write a program in C to find the maximum number between two numbers using a pointer.

Problem: 2

Ask user to enter the table number and its limit. Take these values using pointer, then print the desire table using pointer.

Note: make the use of pointers in each scanf and printf

Sample Ouput

Enter table: 5

Enter limit: 8

*5 * 1 = 5*

*5 * 2 = 10*

*5 * 3 = 15*

*5 * 4 = 20*

*5 * 5 = 25*

*5 * 6 = 30*

*5 * 7 = 35*

*5 * 8 = 40*

Problem: 3

Write a c program that write in a file firstfile.txt your name, roll number and CGPA.

Example:

Name: XYZ

Roll Number: 22P-8743

CGPA:3.5

Problem: 4

1. Write a c program that opens a already created file firstfile.txt (that you have created in above question).
2. Now read the data of file and display it. (Read the data until you reach end of file).

Problem: 5

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

1. Write a program that start printing the first 4 character of every name in a file (names.txt).
2. Write a program that prints the sum of the lengths of the names in names.txt.
3. Write a function that read names in names.txt and prints all the names that have the length given as a parameter e.g print_name(3)

Input File

Atif
Umer
Anna
Muhammad
Aimen
Farooq
Hamza
Ali
Ahmed
Ibrar
Saad
Hussain
Raza

Input

```
print_name(5)
```

Output

Aimen

Hamza

Ahmed

Ibrar

Input

```
print_name(4)
```

Output

Atif

Umer

Anna

Saad

Raza

4. Write a program that reads 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

```
Atif
Umer
Anna
Muhammad
Aimen
Farooq
Hamza
Ali
Ahmed
Ibrar
Saad
Hussain
Raza
```

Output File

names.txt	×	program.txt
1 Atif	,	Programming Fundamentals,Calculus,English Composition
2 Umer	,	Programming Fundamentals,Calculus,English Composition
3 Anna	,	Programming Fundamentals,Calculus,English Composition
4 Muhammad	,	Programming Fundamentals,Calculus,English Composition
5 Aimen	,	Programming Fundamentals,Calculus,English Composition
6 Farooq	,	Programming Fundamentals,Calculus,English Composition
7 Hamza	,	Programming Fundamentals,Calculus,English Composition
8 Ali	,	Programming Fundamentals,Calculus,English Composition
9 Ahmed	,	Programming Fundamentals,Calculus,English Composition
10 Ibrar	,	Programming Fundamentals,Calculus,English Composition
11 Saad	,	Programming Fundamentals,Calculus,English Composition
12 Hussain	,	Programming Fundamentals,Calculus,English Composition
13 Raza	,	Programming Fundamentals,Calculus,English Composition

Additonal Task

Problem: 6

Write a program to initialize 100 randomly generated numbers. Sort all numbers in ascending order. Write all sorted numbers in file sortedNumbers.txt