# CL1002 – Programming Fundamentals Lab

**Note:**

- Submit a pdf file containing all of your C code with all possible screenshots of every task output on Google Classroom.
- Please submit your file with this naming convention (roll-no-name) i.e (23P-1234-Ali.pdf).

## Problem: 1

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

Example:

Name: XYZ

Roll Number: 23P-8003

CGPA:3.5

## Problem: 2

1. Write a C program that opens an already created file firstfile.txt (that you have created in the above question).

2. Now read the data of file and display it. (Read the data until you reach the end of file).

## Problem: 3

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

1. Write a program that starts 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*

## Problem: 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**

```
 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
```