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Description automatically generated**University Islamabad, Lahore Campus**

**Block–C, Department of Computer Science**

**COMSATS University Islamabad, Lahore Campus 1.5KM Defence Road, Off Raiwind Road, Lahore**

**LabTask#1 (10 marks)**

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**Objective :**

The purpose of this lab task is to go through a complete cycle of writing a program on Linux platform, using make utility to compile it, compressing it using tar and then submitting it on Google class.

**Problem Statement :**

Write a simple calculator which can perform four basic math operations, i.e addition, subtraction, multiplication and division. You will create five .c files namely:

main.c add.c sub.c mul.c div.c

main.c will contain the main function and call each of the four functions based on user input. The other four .c files will contain respective functions, i.e add.c will contain function **addition** which will return the sum of two numbers passed to it as arguments. Similarly div.c will contain function **divide** which will return floating point result of division. Put add.c, sub.c, mul.c, div.c in static library called libmymathlib.a and link it with main.c Create a makefile to compile your program.

Put all the source files and make file in a tar file. The name of the tar file should be your SID. For example SP21\_BSE\_123.tar

Sample run of the program is as follows:

$ ./mycalc.exe

Please enter +, -, \*, / or Q to quit : +

Please enter two numbers that you want to add : 25 35

Result : 60

Please enter +, -, \*, / or Q to quit : Q

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