**Request 1**: **Basic Linux commands**

Write the Linux commands for following requests:

1. Create a directory named “Linux\_C”
2. Add read write permissions to all user for Linux\_C directory
3. Go to Linux\_C directory
4. Create a file named “output.log”
5. Open file output.log and write :

” C Programming on Linux

Assignment10.1 – Basic Commands”

1. Get user name and write to output.log
2. Copy /home/usr/ to current directory.
3. List all console devices in ./dev directory (console devices started with tty\* - tty0,tty1,ttyUSB0…) (note: only devices started with tty, not .tty)
4. List out a list of commands you think you will use most often.
5. Create a new file named permission.txt; use chmod to change permissions of this file so that this file has following permission:
   1. Owner of file can read, write and execute
   2. Group of the owner can only read and execute the file
   3. Others can only read the file.

**Request 2: Math Library**

Write a math library (in a separated .c and .h files) with five functions: +, -, \*, ÷, mod. Write another C program to test this library on the two random integers.

Requirements:

* Don’t use build-in functions in the math library, but implement the code by yourself.
* Create makefile to build your application with basic command:
  + Make: build your application.
  + Make install: install your application to /opt/practice
  + Make clean: clear all temporary files.