Sir Syed CASE Institute of Technology

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Submitted to:
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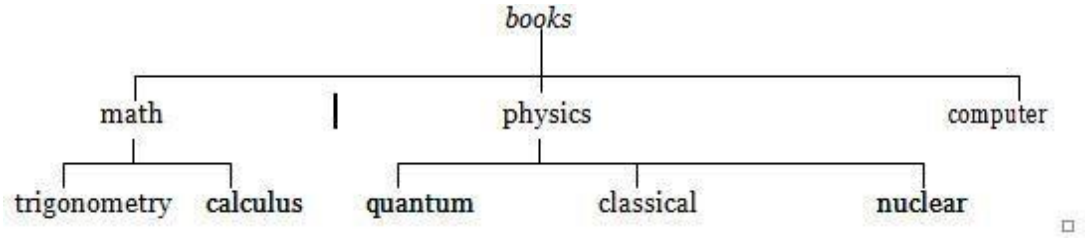
Lab # 02

Task no 01

Create the following directory structure:




```
ubuntu@ubuntu: ~/Desktop/book
ubuntu@ubuntu:~/Desktop$ mkdir book
ubuntu@ubuntu:~/Desktop$ cd book
ubuntu@ubuntu:~/Desktop/book$ mkdir math physic computer
ubuntu@ubuntu:~/Desktop/book$ cd math
ubuntu@ubuntu:~/Desktop/book/math$ mk dir trigonometry calculus
mk: command not found
ubuntu@ubuntu:~/Desktop/book/math$ mkdir trigonometry calculus
ubuntu@ubuntu:~/Desktop/book/math$ cd..
cd..: command not found
ubuntu@ubuntu:~/Desktop/book/math$ cd ..
ubuntu@ubuntu:~/Desktop/book$ cd physic
ubuntu@ubuntu:~/Desktop/book/physic$ mkdir quantum classical nuclear
ubuntu@ubuntu:~/Desktop/book/physic$ cd ..
Command 'tree' not found, but can be installed with:
sudo apt install tree
ubuntu@ubuntu:~/Desktop/book$ sudo apt install tree
Reading package lists... Done
Building dependency tree... Done
```

```
ubuntu@ubuntu:~/Desktop/book$ cd ..
ubuntu@ubuntu:~/Desktop$ tree book
book
├── computer
├── math
│   ├── calculus
│   └── trigonometry
└── physic
    ├── classical
    ├── nuclear
    └── quantum
```

Command I use to perform the task :

Open the terminal in Ubuntu and run the following commands. First, create the main directory named books using the command mkdir books. Then, inside books, create three subdirectories: math, physics, and computer using mkdir math ,physics ,computer. Next, create trigonometry and calculus inside the math directory with mkdir trigonometry books/math/calculus. Similarly, create quantum, classical, and nuclear inside the physics directory using mkdir quantum classical nuclear. Finally, to verify the directory structure, use the command tree books. If the tree command is not installed, install it first by running sudo apt install tree , then re-run tree books to check the structure.

Task no 02

Write a program that prints odd numbers from 1 to 10 and print their sum, Compile and run it using gcc.

```
ubuntu@ubuntu:~$ gcc oddnumber_print.c -o oddnumber
ubuntu@ubuntu:~$ ./oddnumber
odd number from 1 to 10 :
13579
sum of odd number : 25
ubuntu@ubuntu:~$ S
```

Commands I use to perform the task:

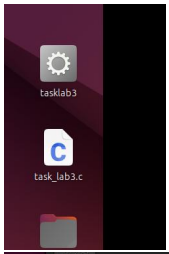
First, we ran the nano filename.c command, which opened the compiler. Then, we wrote the code and saved it by pressing Ctrl + O and then Enter. After that, we ran the command gcc filename -o executable_file. The next command was ./executable_file, which displayed the final output.

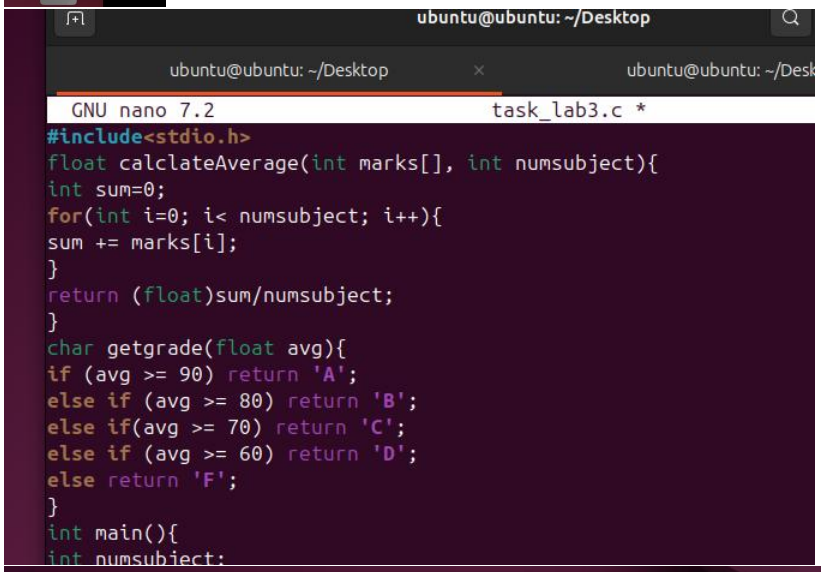
Task no 03

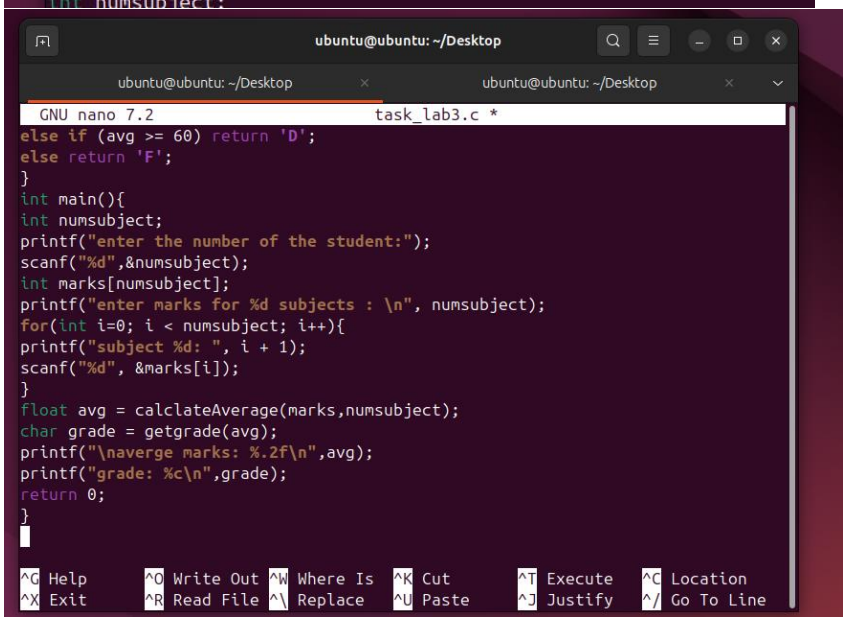
Student Grade Calculation System

```
ubuntu@ubuntu:~/Desktop$
ubuntu@ubuntu:~/Desktop$ gcc task_lab3.c -o tasklab3
ubuntu@ubuntu:~/Desktop$ ./tasklab3
enter the number of the student:2
enter marks for 2 subjects :
subject 1: 87
subject 2: 59

averge marks: 73.00
grade: C
ubuntu@ubuntu:~/Desktop$ S
```







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