

# **RIPHAH INTERNATIONAL UNIVERSITY, ISLAMABAD**



**Bachelors of Computer Science – 6th  
Semester**

**Subject: Operating System**

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## QUESTION 1

```
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p books/math/trigonometry
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p books/math/calculus
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p books/physics/quantum
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p books/physics/classical
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p books/physics/nuclear
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p books/computer
ammara@ammara-HP-ProBook-430-G2:~$ sudo apt install tree
[sudo] password for ammara:
```

```
ammara@ammara-HP-ProBook-430-G2:~$ tree books
books
├── computer
├── math
│   ├── calculus
│   └── trigonometry
└── physics
    ├── classical
    ├── nuclear
    └── quantum

9 directories, 0 files
```

## QUESTION 2

pwd (Print Working Directory):

ls (List Directory Contents):

cd (Change Directory):

mkdir (Make Directory):

rm -r (Remove Directory and Its Contents):

cp (Copy Files/Directories):

mv (Move or Rename Files/Directories):

find (Search for Files/Directories):

touch (Create Empty File):

## What is BASH?

BASH (Bourne Again SHell) is a program in Linux that lets you type and run commands to control the computer. It helps you move around folders, manage files, and run programs. You can also write scripts in BASH to automate tasks. It's like a more powerful version of the original command program used in older systems. When you open a terminal on Linux, you're likely using BASH.

## QUESTION 3

```
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p D1
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p D1/D11 D1/D12 D1/D13 D1/D14
ammara@ammara-HP-ProBook-430-G2:~$ touch D1/D11/F1 D1/D11/F2 D1/D11/F3
ammara@ammara-HP-ProBook-430-G2:~$ touch D1/D12/F4
ammara@ammara-HP-ProBook-430-G2:~$ touch D1/D13/F5 D1/D13/F6
ammara@ammara-HP-ProBook-430-G2:~$ touch D1/D14/F7 D1/D14/F8 D1/D14/F9
ammara@ammara-HP-ProBook-430-G2:~$ tree D1
D1
├── D1
│   ├── D11
│   ├── D12
│   ├── D13
│   └── D14
├── D11
│   ├── F1
│   ├── F2
│   └── F3
├── D12
│   └── F4
├── D13
│   ├── F5
│   └── F6
└── D14
    ├── F7
    ├── F8
    └── F9

9 directories, 9 files
ammara@ammara-HP-ProBook-430-G2:~$
```

## QUESTION : 4

```
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p D2
ammara@ammara-HP-ProBook-430-G2:~$ mkdir -p D2/D11 D2/D12 D2/D13 D2/D14
ammara@ammara-HP-ProBook-430-G2:~$ touch D2/D11/F1 D2/D11/F2
ammara@ammara-HP-ProBook-430-G2:~$ touch D2/D12/F3
ammara@ammara-HP-ProBook-430-G2:~$ touch D2/D13/F4
ammara@ammara-HP-ProBook-430-G2:~$ touch D2/D14/F5 D2/D14/F6
ammara@ammara-HP-ProBook-430-G2:~$ tree D2
```

```
D2
├── D11
│   ├── F1
│   └── F2
├── D12
│   └── F3
├── D13
│   └── F4
└── D14
    ├── F5
    └── F6
```

4 directories, 6 files

```
ammara@ammara-HP-ProBook-430-G2:~$ █
```