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Experiment No. 1.2

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Subject Name: Linux Administration Lab
Subject Code: 22CAP-648

1. **Task to be done:**

   Write a command used to display existing partitions and sizes using 2 different commands. After than compare the outputs of both. After this create a new 400MB primary partition and 2 extended partition under that primary partition and check whether both partitions are created or not.

2. **Code for experiment/practical:**
   - Command to display existing partitions
     1. *Lsblk*
     2. *Fdisk -l*

```
File  Edit  View  Search  Terminal  Help
[arkay@192 ~]$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sr0          11:0    1 1024M  0 rom
nvme0n1     259:0    0   60G  0 disk
├─nvme0n1p1 259:1    0  300M  0 part /boot
├─nvme0n1p2 259:2    0  2.1G  0 part [SWAP]
└─nvme0n1p3 259:3    0 47.6G  0 part /
[arkay@192 ~]$
```

   - Switch to Root user to create partition using ***su root***
   - Use this command and press n to create new partition.

fdisk /dev/nvme0n1

```
[arkay@192 ~]$ su root
Password:
[root@192 arkay]# fdisk /dev/nvme0n1

Welcome to fdisk (util-linux 2.32.1).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.


Command (m for help): n
Partition type
   p   primary (3 primary, 0 extended, 1 free)
   e   extended (container for logical partitions)
Select (default e): 
```

- Click Enter (*It will select default e for logical partition*)
- Leave the First sector blank and press enter.
- Enter the value like ***+400M*** to create a new partition of 400MB.
- Enter ***w*** to save.
- Check the partitions using ***lsblk*** command.

```
[root@192 arkay]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sr0          11:0    1 1024M  0 rom
nvme0n1     259:0    0   60G  0 disk
├─nvme0n1p1 259:1    0  300M  0 part /boot
├─nvme0n1p2 259:2    0  2.1G  0 part [SWAP]
├─nvme0n1p3 259:3    0 47.6G  0 part /
└─nvme0n1p4 259:4    0  400M  0 part
[root@192 arkay]#
```

Learning outcomes (What I have learned):

1. **Learned about checking partitions in Linux.**
2. **Learned about creating a partition in Linux.**

********** THE END **********