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## Linux Assignment 2

### Question 1

```
dbda@iacsdb:~$ sudo addgroup red
[sudo] password for dbda:
Adding group 'red' (GID 1001) ...
Done.
dbda@iacsdb:~$ sudo addgroup blue
Adding group 'blue' (GID 1002) ...
Done.
dbda@iacsdb:~$ sudo addgroup green
Adding group 'green' (GID 1003) ...
Done.
dbda@iacsdb:~$ sudo addgroup orange
Adding group 'orange' (GID 1004) ...
Done.
dbda@iacsdb:~$ sudo adduser apple --gid 1001
Adding user 'apple' ...
Adding new user 'apple' (1001) with group 'red' ...
Creating home directory '/home/apple' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for apple
Enter the new value, or press ENTER for the default
    Full Name []: apple
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y

dbda@iacsdb:~$ sudo adduser banana --gid 1001
Adding user 'banana' ...
Adding new user 'banana' (1002) with group 'red' ...
Creating home directory '/home/banana' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for banana
Enter the new value, or press ENTER for the default
    Full Name []: banana
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
dbda@iacsdb:~$ sudo adduser cat --gid 1001
Adding user 'cat' ...
Adding new user 'cat' (1003) with group 'red' ...
Creating home directory '/home/cat' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for cat
Enter the new value, or press ENTER for the default
    Full Name []: cat
    Room Number []:
    Work Phone []:
    Home Phone []:
```

```
dbda@iacsd:~$ sudo adduser dog --gid 1001
Adding user 'dog' ...
Adding new user 'dog' (1004) with group 'red' ...
Creating home directory '/home/dog' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for dog
Enter the new value, or press ENTER for the default
    Full Name []: dog
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
dbda@iacsd:~$ sudo adduser elephant --gid 1001
Adding user 'elephant' ...
Adding new user 'elephant' (1005) with group 'red' ...
Creating home directory '/home/elephant' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
passwd: password updated successfully
Changing the user information for elephant
Enter the new value, or press ENTER for the default
    Full Name []: elephant
    Room Number []:
    Work Phone []:
    Home Phone []:
```

Activate Windows  
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```
apple:x:1001:1001:apple,,,:/home/apple:/bin/bash
banana:x:1002:1001:banana,,,:/home/banana:/bin/bash
cat:x:1003:1001:cat,,,:/home/cat:/bin/bash
dog:x:1004:1001:dog,,,:/home/dog:/bin/bash
elephant:x:1005:1001:elephant,,,:/home/elephant:/bin/bash
fish:x:1006:1002:fish,,,:/home/fish:/bin/bash
gun:x:1007:1002:gun,,,:/home/gun:/bin/bash
horse:x:1008:1002:horse,,,:/home/horse:/bin/bash
lcecream:x:1009:1002:lcecream,,,:/home/lcecream:/bin/bash
jelly:x:1010:1003:jelly,,,:/home/jelly:/bin/bash
kitkat:x:1011:1003:kitkat,,,:/home/kitkat:/bin/bash
marshmallow:x:1012:1003:marshmallow,,,:/home/marshmallow:/bin/bash
new:x:1013:1004:new,,,:/home/new:/bin/bash
oppo:x:1014:1004:oppo,,,:/home/oppo:/bin/bash
vivo:x:1015:1004:vivo,,,:/home/vivo:/bin/bash
china:x:1016:1004:china,,,:/home/china:/bin/bash
dbda@iacsd:~$
```

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## Question 1a

```
dbda@iacsd:/home$ mkdir EVERYONE
mkdir: cannot create directory 'EVERYONE': Permission denied
dbda@iacsd:/home$ sudo mkdir EVERYONE
dbda@iacsd:/home$ sudo chmod 777 EVERYONE
```

## Question 1b

```
dbda@iacsd:/home$ su apple
Password:
apple@iacsd:/home$ whoami >> apple.txt
bash: apple.txt: Permission denied
apple@iacsd:/home$ cd
apple@iacsd:~$ whoami >> apple.txt
apple@iacsd:~$ su banana
Password:
banana@iacsd:/home/apple$ whoami >> banana.txt
bash: banana.txt: Permission denied
banana@iacsd:/home/apple$ cd
banana@iacsd:~$ whoami >> banana.txt
banana@iacsd:~$ su cat
Password:
cat@iacsd:/home/banana$ cd
cat@iacsd:~$ whoami >> cat.txt
cat@iacsd:~$ su dog
Password:
dog@iacsd:/home/cat$ cd
dog@iacsd:~$ whoami >> dog.txt
dog@iacsd:~$ su elephant
Password:
elephant@iacsd:/home/dog$ cd
elephant@iacsd:~$ whoami >> elephant.txt
elephant@iacsd:~$ su fish
Password:
fish@iacsd:/home/elephant$ cd
fish@iacsd:~$ whoami >> fish.txt
fish@iacsd:~$ su gun
Password:
```

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```

gun@iacsd:/home/fish$ cd
gun@iacsd:~$ whoami >> gun.txt
gun@iacsd:~$ su horse
Password:
horse@iacsd:/home/gun$ cd
horse@iacsd:~$ whoami >> horse.txt
horse@iacsd:~$ su icecream
Password:
icecream@iacsd:/home/horse$ cd
icecream@iacsd:~$ whoami >> icecream.txt
icecream@iacsd:~$ su jelly
Password:
su: Authentication failure
icecream@iacsd:~$ su jelly
Password:
jelly@iacsd:/home/icecream$ cd
jelly@iacsd:~$ whoami >> jelly
jelly@iacsd:~$ su kitkat
Password:
kitkat@iacsd:/home/jelly$ cd
kitkat@iacsd:~$ whoami >> kitkat.txt
kitkat@iacsd:~$ su lolipop
su: user lolipop does not exist or the user entry does not contain all the required fields
kitkat@iacsd:~$ su marshmallow
Password:
marshmallow@iacsd:/home/kitkat$ cd
marshmallow@iacsd:~$ whoami >> marshmallow.txt
marshmallow@iacsd:~$ su new
Password:
new@iacsd:/home/marshmallow$ cd
new@iacsd:~$ whoami >> new.txt
new@iacsd:~$ su oppo
Password:

```

```

Password:
china@iacsd:/home/vivo$ cd
china@iacsd:~$ whoami >> china.txt
china@iacsd:~$ exit
exit
vivo@iacsd:~$ exit
exit
oppo@iacsd:~$ su dbda
Password:
dbda@iacsd:/home/oppo$ cd
dbda@iacsd:~$ sudo adduser lolipop --gid 1003
Adding user 'lolipop' ...
Adding new user 'lolipop' (1017) with group 'green' ...
Creating home directory '/home/lolipop' ...
Copying files from '/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for lolipop
Enter the new value, or press ENTER for the default
    Full Name []: lolipop
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
dbda@iacsd:~$ su lolipop
Password:
lolipop@iacsd:/home/dbda$ cd
lolipop@iacsd:~$ whoami >> lolipop.txt
lolipop@iacsd:~$ su dbda
Password:
dbda@iacsd:/home/lolipop$ ls -l
ls: cannot open directory '.': Permission denied
dbda@iacsd:/home/lolipop$ cd

```

```

dbda@iacsd:~$ sudo addgroup one
Adding group 'one' (GID 1005) ...
Done.
dbda@iacsd:~$ sudo addgroup two
Adding group 'two' (GID 1006) ...
Done.
dbda@iacsd:~$ sudo usermod -g one oppo
dbda@iacsd:~$ sudo usermod -g two vivo

```

```

dbda@iacsd:~$ sudo usermod -aG sudo jelly
dbda@iacsd:~$ sudo usermod -aG sudo kitkat
dbda@iacsd:~$ sudo usermod -aG sudo lolipop
dbda@iacsd:~$ sudo usermod -aG sudo marshmallow
dbda@iacsd:~$ sudo usermod -aG first one
usermod: group 'first' does not exist
dbda@iacsd:~$ sudo usermod -aG fish one
usermod: group 'fish' does not exist
dbda@iacsd:~$ sudo usermod -aG one fish
dbda@iacsd:~$ sudo usermod -aG one gun

```

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Question 2 a, b and c

```
dbda@iacsd:~$ nano Number.txt
dbda@iacsd:~$ nano Number.txt
dbda@iacsd:~$ head -n 15 Number.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
dbda@iacsd:~$ tail Number.txt
41
42
43
44
45
46
47
48
49
50
dbda@iacsd:~$ tac Number.txt
50
49
48
47
46
45
```

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### Question 2 d

```
dbda@iacsd:~$ grep '4' Number.txt
4
14
24
34
40
41
42
43
44
45
46
47
48
49
```

Activate W  
Go to Settings

### Question 3 a

```
dbda@iacsd:~$ nano Student.txt
dbda@iacsd:~$ grep 'Sham' Student.txt
2222:Sham:69
```

### Question 3 b c

```
dbda@iacsd:~$ cat Student.txt | grep 'Priya' | cut -d ':' -f3
74
dbda@iacsd:~$ wc -l Student.txt
5 Student.txt
dbda@iacsd:~$
```

Activate Windows  
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