Task 5 ------------------------------------Embedded Linux------------------------------------Ahmed Adel

Q1)

```
ahmed@ahmed007: ~

ahmed@ahmed007:~$ mkdir myteam
ahmed@ahmed007:~$ ls -ld myteam
drwxrwxr-x 2 ahmed ahmed 4096 16:42 14 سب myteam
ahmed@ahmed007:~$ chmod u-wx myteam
ahmed@ahmed007:~$ ls -ld
drwxr-x--- 28 ahmed ahmed 4096 16:42 14 سب .
ahmed@ahmed007:~$ ls -ld myteam
dr--rwxr-x 2 ahmed ahmed 4096 16:42 14 سب myteam
ahmed@ahmed007:~$
```

Q 2,3)

```
ahmed@ahmed007: ~

ahmed@ahmed007:~$ sudo useradd hassan
[sudo] password for ahmed:
useradd: user 'hassan' already exists
ahmed@ahmed007:~$ su hassan
Password:
su: Authentication failure
ahmed@ahmed007:~$ sudo su hassan
$ cd myteam
sh: 1: cd: can't cd to myteam
$
```

Q 4-a)

```
ahmed@ahmed007: ~

$ su ahmed
Password:
ahmed@ahmed007:~$ touch oldpasswd
ahmed@ahmed007:~$ chmod u+rw oldpasswd
ahmed@ahmed007:~$ ls -ld
drwxr-x--- 28 ahmed ahmed 4096 17:13 14 سب .
ahmed@ahmed007:~$ ls -ld oldpasswd
-rw-rw-r-- 1 ahmed ahmed 0 17:13 14 سب oldpasswd
ahmed@ahmed007:~$ chmod g+wx oldpasswd
ahmed@ahmed007:~$ chmod o+x oldpasswd
ahmed@ahmed007:~$ ls -ld oldpasswd
-rw-rwxr-x 1 ahmed ahmed 0 17:13 14 سب oldpasswd
ahmed@ahmed007:~$
```

Q 4-B)

```
ahmed@ahmed007:~$ sudo apt install unmask
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package unmask
ahmed@ahmed007:~$ unmask 0035
Command 'unmask' not found, did you mean:
  command 'unmass' from deb unmass (0.9-4build1)
Try: sudo apt install <deb name>
ahmed@ahmed007:~$ umask 0035
ahmed@ahmed007:~$ ls -ld oldpasswd
-rw-rwxr-x 1 ahmed ahmed 0 17:13 14 سب oldpasswd
ahmed@ahmed007:~$ umask 0035
ahmed@ahmed007:~$ ls -ld oldpasswd
-rw-rwxr-x 1 ahmed ahmed 0 17:13 14 سب oldpasswd
ahmed@ahmed007:~$
```

Q 4-C)

max permission for file : 666
Max permission for directory : 777

Q 4-D)

```
ahmed@ahmed007: ~

ahmed@ahmed007:~/Desktop/ahmed$ cd /home
ahmed@ahmed007:/home$ pwd
/home
ahmed@ahmed007:/home$ umask 777
ahmed@ahmed007:/home$ touch newfile
touch: cannot touch 'newfile': Permission denied
ahmed@ahmed007:/home$ ls -ld
drwxr-xr-x 3 root root 4096 12:29 21 نف .
ahmed@ahmed007:/home$ cd ahmed
ahmed@ahmed007:~$ touch newfile
ahmed@ahmed007:~$ ls -ld
drwxr-x--- 29 ahmed ahmed 4096 17:32 14 سب .
ahmed@ahmed007:~$ ls -ld newfile
---------- 1 ahmed ahmed 0 17:34 14 سب newfile
ahmed@ahmed007:~$ ls -l |greb newdir
Command 'greb' not found, did you mean:
  command 'grex' from snap grex (v1.4.2)
  command 'grep' from deb grep (3.7-1build1)
See 'snap info <snapname>' for additional versions.
ahmed@ahmed007:~$ ls -l |grep newdir
d--------- 2 ahmed ahmed 4096 17:23 14 سب newdir
ahmed@ahmed007:~$
```

Q 4-e)

only root and sudoers can access these files

```
ahmed@ahmed007:~$ sudo su
[sudo] password for ahmed:
root@ahmed007:/home/ahmed# cat newfile
root@ahmed007:/home/ahmed# cd newdir
root@ahmed007:/home/ahmed/newdir#
```

```
ahmed@ahmed007:~$ sudo su
[sudo] password for ahmed:
root@ahmed007:/home/ahmed# cat newfile
root@ahmed007:/home/ahmed# cd newdir
root@ahmed007:/home/ahmed/newdir# exit
exit
ahmed@ahmed007:~$ chmod 000 newfile
ahmed@ahmed007:~$ cat new
cat: new: No such file or directory
ahmed@ahmed007:~$ cat newnew
cat: newnew: No such file or directory
ahmed@ahmed007:~$ cat newfile
cat: newfile: Permission denied
ahmed@ahmed007:~$ sudo cat newfile
ahmed@ahmed007:~$
```

Q 5)

```
ahmed@ahmed007:~$ chmod 000 newfile
ahmed@ahmed007:~$ cat new
cat: new: No such file or directory
ahmed@ahmed007:~$ cat newnew
cat: newnew: No such file or directory
ahmed@ahmed007:~$ cat newfile
cat: newfile: Permission denied
ahmed@ahmed007:~$ sudo cat newfile
ahmed@ahmed007:~$ touch filefile
ahmed@ahmed007:~$ chmod 444 filefile
ahmed@ahmed007:~$ echo hi >> filefile
bash: filefile: Permission denied
ahmed@ahmed007:~$ rm filefile
rm: remove write-protected regular empty file 'filefile'? y
ahmed@ahmed007:~$
```

Q6)

x for file: execute
x for directory: cd