

1.
user1 = gate
user2 = 2468
user3 = read123
user4 = break47!
user5 = home23
user6 = Tree20@

```
[(student㉿kali.example.com) ~]
└─$ sudo useradd user1
useradd: user 'user1' already exists

[(student㉿kali.example.com) ~]
└─$ sudo useradd user2
useradd: user 'user2' already exists

[(student㉿kali.example.com) ~]
└─$ sudo useradd user3
useradd: user 'user3' already exists

[(student㉿kali.example.com) ~]
└─$ sudo useradd user4
useradd: user 'user4' already exists

[(student㉿kali.example.com) ~]
└─$ sudo useradd user5
useradd: user 'user5' already exists

[(student㉿kali.example.com) ~]
└─$ sudo useradd user6
useradd: user 'user6' already exists
```

```
[(student㉿kali.example.com) ~]
└─$ sudo passwd user1
New password:
Retype new password:
passwd: password updated successfully

[(student㉿kali.example.com) ~]
└─$ sudo passwd user2
New password:
Retype new password:
passwd: password updated successfully

[(student㉿kali.example.com) ~]
└─$ sudo passwd user3
New password:
Retype new password:
passwd: password updated successfully

[(student㉿kali.example.com) ~]
└─$ sudo passwd user4
New password:
Retype new password:
passwd: password updated successfully

[(student㉿kali.example.com) ~]
└─$ sudo passwd user5
New password:
Retype new password:
passwd: password updated successfully

[(student㉿kali.example.com) ~]
└─$ sudo passwd user6
New password:
Retype new password:
passwd: password updated successfully
```

2.

```
└─(student㉿kali.example.com)-[~]
└─$ locate rockyou.txt.gz
/home/student/rockyou.txt.gz
/usr/share/wordlists/rockyou.txt.gz

└─(student㉿kali.example.com)-[~]
└─$ sudo cp /usr/share/wordlists/rockyou.txt.gz /home/student

└─(student㉿kali.example.com)-[~]
└─$ ls -l
total 188800
drwxr-xr-x 2 student student 4096 Oct  2 11:50 Desktop
drwxr-xr-x 2 student student 4096 Oct  2 11:50 Documents
drwxr-xr-x 2 student student 4096 Oct  2 11:50 Downloads
drwxr-xr-x 2 student student 4096 Oct  2 11:50 Music
drwxr-xr-x 2 student student 4096 Oct  2 11:50 Pictures
drwxr-xr-x 2 student student 4096 Oct  2 11:50 Public
drwxr-xr-x 2 student student 4096 Oct  2 11:50 Templates
drwxr-xr-x 2 student student 4096 Oct  2 11:50 Videos
-rw-rw-r-- 1 student student 594 Oct  6 20:11 hash.txt
-rw-rw-r-- 1 student student 99 Oct  6 20:31 one.txt
-rw-r--r-- 1 student student 139921507 Oct  6 19:44 rockyou.txt
-rw-r--r-- 1 root    root    53357329 Oct  7 02:01 rockyou.txt.gz
-rw-rw-r-- 1 student student 2096 Oct  6 19:45 student.txt

└─(student㉿kali.example.com)-[~]
└─$ gunzip rockyou.txt.gz
gzip: rockyou.txt already exists; do you wish to overwrite (y or n)? y
```

```
└─(student㉿kali.example.com)-[~]
└─$ sudo grep -E "user1|user2|user3|user4|user5|user6|" /etc/shadow
root:*:20150:0:99999:7:::
daemon:*:20150:0:99999:7:::
bin:*:20150:0:99999:7:::
sys:*:20150:0:99999:7:::
sync:*:20150:0:99999:7:::
games:*:20150:0:99999:7:::
man:*:20150:0:99999:7:::
lp:*:20150:0:99999:7:::
mail:*:20150:0:99999:7:::
news:*:20150:0:99999:7:::
uucp:*:20150:0:99999:7:::
proxy:*:20150:0:99999:7:::
www-data:*:20150:0:99999:7:::
backup:*:20150:0:99999:7:::
```

```
[(student㉿kali.example.com)-[~]
$ sudo grep -E "user1|user2|user3|user4|user5|user6" /etc/shadow > avale022.txt

[(student㉿kali.example.com)-[~]
$ cat avale022.txt
user1:$y$j9T$WnpDTzQVLrEVLBUG.yQlo/$kNkd..6iFXL46.oo6Z8Yy/ybJEvMu9MsB3BWDFRv0A6:20368:0:99999:7:::
user2:$y$j9T$VIYl9ByURasr3tRBu0uIQ.$92kCHwcQv3aZFF5cUUtn39ZJwKKoSfEt/XleQEZeuD:20368:0:99999:7:::
user3:$y$j9T$A.HLY51vy7ehzNid9I4g//$whrmNkTvYNzGqWRPN0dRe9bwc9vSG7qQGOwLHllUSG6:20368:0:99999:7:::
user4:$y$j9T$nP.oiik4k5j99DP6aeUqz0$vxAY7b8VnUsWhm..8U4HYHmf9uUlrf0mjUrnvlw1Wh9:20368:0:99999:7:::
user5:$y$j9T$TNZz7JX2Kw/8hvmZ1L0yn.$8/paTHxnp4IJErt6hjyuakQwTk0Fs5DqUAdfUtL6XU5:20368:0:99999:7:::
user6:$y$j9T$MPGdgDbEG6Q68G/lqbkGu/$/b3iq5sIK619ovmU1Xom2v/3Q8Mq/1ME2Zq1o0xY1G3:20368:0:99999:7:::
```

3.

```
[(student㉿kali.example.com)-[~]
$ sudo john --format=crypt avale022.txt --wordlist=/home/student/rockyou.txt
Using default input encoding: UTF-8
Loaded 6 password hashes with 6 different salts (crypt, generic crypt(3) [?/64])
Cost 1 (algorithm [1:descrypt 2:md5crypt 3:sunmd5 4:bcrypt 5:sha256crypt 6:sha512crypt]) is 0 for all 1
loaded hashes
Cost 2 (algorithm specific iterations) is 1 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
[
```

- Sent an email, regarding staying after class to get help with no passwords getting cracked

```
[(adrianvaal㉿kali)-~]
$ sudo useradd user1
[sudo] password for adrianvaal:
Sorry, try again.
[sudo] password for adrianvaal:

[(adrianvaal㉿kali)-~]
$ sudo useradd user2

[(adrianvaal㉿kali)-~]
$ sudo useradd user3

[(adrianvaal㉿kali)-~]
$ sudo useradd user4

[(adrianvaal㉿kali)-~]
$ sudo useradd user5

[(adrianvaal㉿kali)-~]
$ sudo useradd user6

[(adrianvaal㉿kali)-~]
$ sudo passwd user1
New password:
Retype new password:
passwd: password updated successfully

[(adrianvaal㉿kali)-~]
$ sudo passwd user2
New password:
Retype new password:
passwd: password updated successfully
```

```
[(adrianvaal㉿kali)-~]
$ sudo passwd user2
New password:
Retype new password:
passwd: password updated successfully

[(adrianvaal㉿kali)-~]
$ sudo passwd user3
New password:
Retype new password:
passwd: password updated successfully

[(adrianvaal㉿kali)-~]
$ sudo passwd user4
New password:
Retype new password:
passwd: password updated successfully

[(adrianvaal㉿kali)-~]
$ sudo passwd user5
New password:
Retype new password:
passwd: password updated successfully

[(adrianvaal㉿kali)-~]
$ sudo passwd user6
New password:
Retype new password:
passwd: password updated successfully
```

2.