CSCI-4116 Assignment 1

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1 Exercise 1

1.1 Q1 and 2

1.2 Q3

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The Action East View Help

(cutie ® Beauti)-[~]

$ SSh-copy-id -i ./.ssh/id_ed25519.pub hadi@timberlea.cs.dal.ca
```

1.3 Q4

1.4 Q5

1. Benefits:

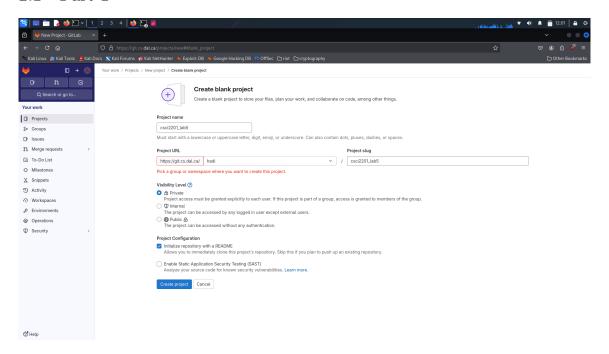
- More resilient to brute force attacks the keysize is much larger than usual passwords
- More resilient to social engineering attacks since it is much harder to extract information about the key from the user (the only way to do so is to have the user share their private key which is easier to avoid as opposed to sharing general information that might hint to possible user created passwords)
- Does not require the user to memorize passwords

2. Drawback:

- Requires more complex/involved setup as opposed to passwords.
- Requires key managment, since losing the key means that the user will not be able to login anymore (so a backup/key recovery mechanisim must be used in conjunction)

2 Question 2

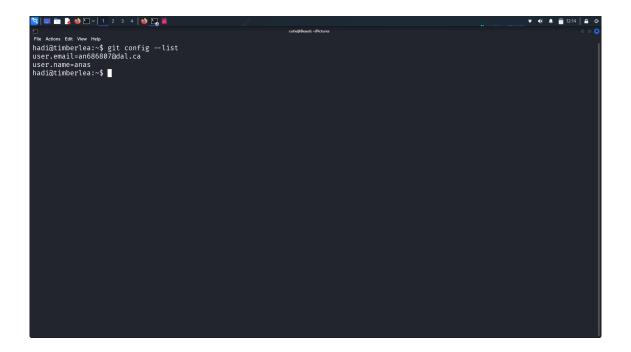
2.1 Part 1



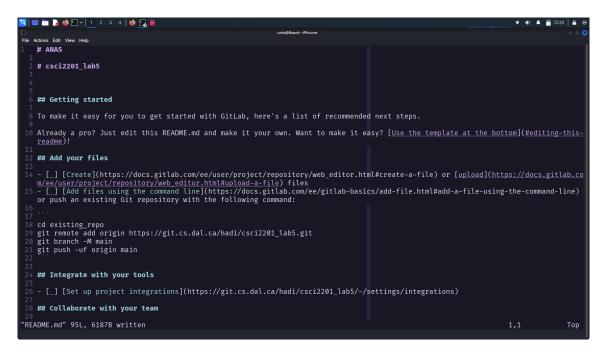
2.2 Part 2

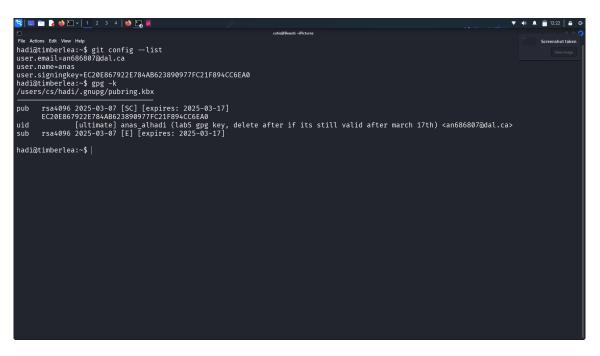
```
The Actions Cell Vew Help
hadialtimberlea:-$gpg - K
//users/cs/hadi/.agnug/pubring.kbx

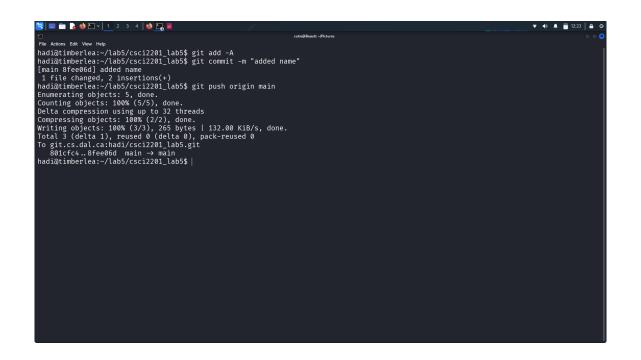
Sec rsa4096 2025-03-07 [SC] [expires: 2025-03-17]
EC20E867922278AAB622890977FC21E894C66EA0
uid [ultimate] anas alhadi (lab5 gpg key, delete after if its still valid after march 17th) <an686807@dal.ca>
sb rsa4096 2025-03-07 [E] [expires: 2025-03-17]
hadialtimberlea:-$ ■
```



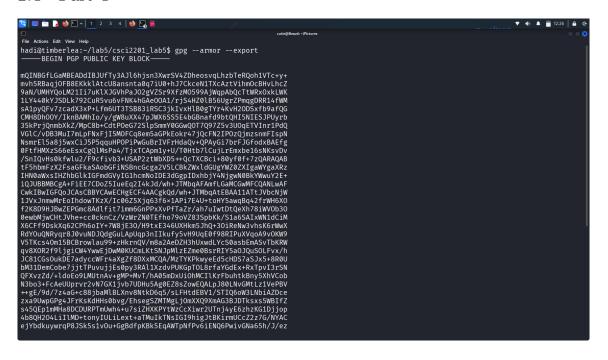
2.3 Part 3

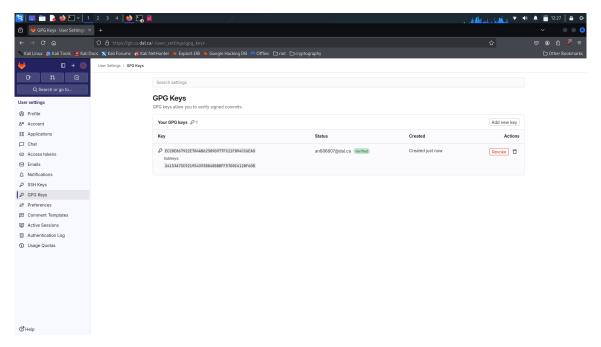






2.4 Part 4





2.5 Part 5

