Assignment - 8

of

Cyber Security Laboratory (CSE612)

Bachelor of Technology (CSE)

Ву

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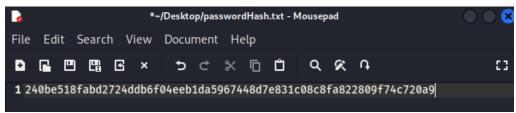
Q1. Install John the Ripper in Ubuntu (For Kali Linux it is inbuilt) using the following command: sudo apt-get install john-the-ripper OR sudo apt-get install john

1. Installation of John the Ripper

```
(kali@vbox)-[~]
$ sudo apt-get install john
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
john is already the newest version (1.9.0-Jumbo-1+git20211102-0kali9).
john set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 948 not upgraded.
```

Q2. Demonstrate how to use the single crack mode for password cracking.





Q3. Demonstrate how to use the word list mode for password cracking.

```
(kali@ vbox)-[~/Desktop]
$ john --wordlist=rockyou.txt --format=raw-sha256 passwordHash.txt
Using default input encoding: UTF-8
Loaded 1 password hash (Raw-SHA256 [SHA256 128/128 SSE2 4x])
Warning: poor OpenMP scalability for this hash type, consider --fork=3
Will run 3 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
admin123 (?)
1g 0:00:00:00 DONE (2025-04-29 22:18) 25.00g/s 2457Kp/s 2457Kc/s 2457KC/s college07..Dominic1
Use the "--show --format=Raw-SHA256" options to display all of the cracked passwords reliably
Session completed.
```

Q4. Demonstrate how to use the incremental mode for password cracking.