Introduction to Information Security and Forensics
Assignment 02
Distribution Date: 08-11-2022
Due Date: 15-11-2022

Instructions:

- Submit this assignment by turning in in the reply of this assignment on Microsoft Teams with the file title **"YourRegNo_YourName_YourSection_AssignmentNo".** Incorrect title can harden to find your email from inbox, and you may get **0** marks.
- Late submission is not allowed (Time has fixed on Microsoft Teams). Late submission request with any excuse will be strictly denied.
- Don't copy any material from Internet and don't share your assignment with your colleges. If anyone fail to compliance this policy, he/she will be awarded **0** marks**.**
- You will have to submit MS Word file in attachment. If it is required to submit any snap or screenshot, place it in Word document with appropriate caption.
- Don't forget to add citation if you are getting help form a websites or books.
- Your assignment report should be well formatted according to the standard format. Submit assignment report in APA format. You can easily find template and examples of APA format from Internet

Marks Distribution

APA Format	5
Citation	5
Questions	40
Total	**50**

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Q1

In this class, you have already installed Kali Linux. This portion of assignment will be performed on Kali Linux by running following commands with their description. Take screenshot of each step and submit screenshot with description of each step.

1. Execute command Line in Kali Linux
2. Change working directory of command line from existing directory to Desktop of Kali Linux
3. At command prompt, execute following command to create new file using vi editor.
   vi example.txt
4. Press i to enter in edit mode of vi editor, then add "YourName". Replace "YourName" with your name.
5. In vi editor, press Esc button to exit edit mode, then type :wq! and press enter to save changes in file.
6. At command prompt, type cat example.txt to display the content of file.
7. At command prompt, type md5sum example.txt to create hash on the example.txt file.
8. At command prompt, type sha256sum example.txt to create hash on the example.txt file.
9. Take screen shot of all steps and add in assignment report.
10. What is your learning in this lab? Express in three lines.

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Q2

I hope you have installed Kali Linux Virtual Machine on your side. Kali Linux Operating System is equipped with John the Reaper, an open-source password cracking tool. Your job is to crack the hash to password by using hashes given below. These hashes are generated with MD-5 hashing algorithm. At the end of this job, you are required to fill the table with correct passwords. Also attach screenshot of each password cracking result displayed by John the Reaper. Without screenshot, you will not get marks in this question and screen shot must display the complete desktop of your system.

No	Hash of Password	Password
1	aa3faec46d416fd0b572545a1d2bc655	
2	b9698b8546220246fe600a949db326bf	
3	e10adc3949ba59abbe56e057f20f883e	
4	aab92e69374e4c7b8c6741fe02e574b9	
5	f1f3c2f4bf011fd71d6459b6353294d9	

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Q3

1. Search at least two organizations that has attacked with Ransomware virus and the organizations paid heavy amount in return of data. Add description and link of your search and screen shots where required.

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END