DEPARTMENT OF COMPUTER ENGINEERING
UNIVERSITY OF PERADENIYA

CO325: Computer & Network Security - 2022

November 23, 2023

Assignment 1: Cybersecurity

1. Write a Summary Report on "Cybersecurity".

2. Write an Essay on "The vicissitude of Cyber Crime Threat Landscape: The past, present and the future".

3. Write short notes on the following topics:

   a) Cybercrime-as-a-Service (CaaS): The Naughty Nine

   b) The rise of Targeted Attacks

   c) Targeted Ransomware and the Future of Ransomware

   d) Formjacking

   e) Cryptojacking: A Modern Cash Cow

   f) Cloud Threats: Adapting to the New Reality of Evolving

   g) Supply Chain attacks

   h) Infrastructure under attack

   i) IoT Attacks

   j) Evolving Mobile Landscape & Mobile Malware Attacks

INSTRUCTIONS:

- Read **Sophos** **2023 Threat Report**, **Sophos** **2022 Threat Report**, **FBI's** **Internet Crime Report 2022** & **Internet Crime Report 2021**, **The Threat Landscape in 2021** by *Symantec*,**Sophos** **2021 Threat Report**, **Cyber Security Report** for **2020** by *Check Point*, **Internet Security Threat Report**s for **2019, 2018, 2017** & **2016** by *Symantec*, **Annual Cybersecurity Report** by *Cisco Systems* and **Cyber Safety Insights Report**s by *Norton*. You are free (& encouraged) to refer other source as well.

- Cite your references [Note: while you are expected to *focus more on the current trends and status* (except for question 2), you are also *encouraged to refer the changing conditions* in your answers by referring to the past as well].

- Manage your reference: We'll have a quick session on using **Mendeley** *Reference Manager* to manage what you read, in an efficient and effective manner.

- The Essay should be of length 3-5 A4 pages, while the Summary Report should be of length 2-4 pages, both typed in 11pt font with single spacing.

- Here's some references for you to distinguish between an Essay and a Summary Report:
    - `https://bit.ly/3507luT` - What are main differences between essay and report? (ResearchGate)
    - `https://bit.ly/3wVFzZg` - Reports and essays: Key differences (University of Portsmouth) - PDF: `https://bit.ly/46qOS4C`

- A short note on a given topic should consist of between 300 - 500 words.

DEADLINE: 09:59 pm on Friday, December 08, 2023