UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

IS2109 Information Systems Security - Practical 6
Secure Web Browsing and Digital Identity

Instructions:

- **Submit answers for all the following questions. Clearly mention the Question Numbers.**

- **You must submit your answers as a PDF document named as P6_GroupNumber (E.g. P6_Group 5)**

- **Only one document should be submitted from a group and make sure to mention the index numbers of the group members at the end of the document.**

1. **Cookies (Include screenshots of each step you followed when answering the below questions)**

i. Delete the cookies from your browser. Log on to a shopping site and select 3+ items. Check whether relevant advertisements are showing when you are doing different activities using google. Delete those cookies again and do an activity using google. Check whether shopping advertisements are showing again or not?

ii. Log in to Facebook with your username and password. Close the facebook account.

- Delete the cookie history and try to log in to FB. Can you log in without re-entering your username and password?

- After logging in to your facebook account, copy the cookie and use that cookie on another machine to login to your FB account again. Can you do that?

iii. What threats arise when cookies are used by third parties? How can this happen?

2. **Digital Identity (Screenshots are not needed for this part)**

i. What are the key differences between online and 'real life' identity?

ii. Discuss one's digital identity corresponding to a specific website of your choice. (eg: Amazon/ Your bank/ Your educational institute)

iii. Differentiate between partial identity and persona.

iv. Explain how a partial identity can be created.

v. What are digital identifiers?

vi. What is the purpose of a digital identifier?

vii. Understand and explain the relationship between online identity and personal privacy.

viii. Identify the key concerns related to one's online identity and privacy.

ix. Recognise what kind of user information has a potential threat of steal and why.

x. What type of information would one share on the internet voluntarily and involuntarily? Give examples for each.

xi. How easy is it to have control over shared information? Elaborate your answer.

xii. To whom does your identity be valuable, and what are the reasons?

xiii. Identify the ways of controlling the privacy of your online identity

xiv. Discuss below topics

    a. Social Engineering attack

    b. Electronic Eavesdropping

    c. Mass Data Compromise

    d. Parallel Lives

xv. Is it okay to have multiple identities online? Give reasons for your answer.