ASSIGNMENT ONE

Assignment 1 constitutes part of in-course assessment of 25% of this module.

OBJECTIVES

Mobile devices and smartphones may contain useful information for investigation or forensics purposes. As such, Mobile forensic is an important sub-branch within the digital forensic domain relevant to the extraction of digital evidence from portable and/or mobile devices.

The learning objective of this assignment is to reinforce the concepts and principles covered in Mobile Forensics. Your team shall choose a topic related to **MOBILE FORENSICS** for your assignment to:

- Conduct a research for the assigned topic; and
- Present and produce a technical report for the assigned topic.

INSTRUCTIONS

1. You are to complete this assignment in groups of 3 – 4 (maximum) members.
2. Present your team's findings during lab hours. Presentation is to be done in week 6 (23th – 27th May 2022). Presentation time including Q&A for each team is 12-15 minutes. **Do not exceed presentation time**.
3. A softcopy of the report plus presentation slides are to be submitted to instructor **by 27th May 2022 (Friday) 5pm**.
4. 50% of the marks will be deducted for assignments that are received within ONE calendar day after the submission deadline. No marks will be given thereafter.
5. Exceptions to this policy will be given to students with valid LOA on medical or compassionate grounds. Students in such cases will need to inform the lecturer as soon as reasonably possible.

REPORT REQUIREMENTS

1. **Proper report structure** including cover page, content page and documentation of your work and task allocation.
2. Cover page of your report should include:
   - Module name and code
   - Course and class
3. Name of students in the assignment group

4. Guidelines for report: -

- **Introduction**: - Why team decides to choose a particular topic. What is the topic about? – about 10% of the report
- **Technical write up**: - Including current trends/technical processes/operational processes/possible tools used/challenges/opportunities – about 60% of the report.
- **Individual write up**: - *Tasks allocation and reflections. Take away from this assignment. – about 20% of the report
- **Conclusion**: - Assignment team's view about the topic – about 10% of the report.

5. *Task Allocation

- Breakdown of tasks assigned to individual group members. Contribution to the assignment team.

6. Length of report

- The total length between 18 to 20 A4 pages. This does not include appendices, tables, learning reflection and diagrams.

7. Research

- Do not copy wholesale the information you found on the Internet. Instead you should explain in your own words. Very little marks will be awarded for wholesale copying.

8. References – Important!!

- If you use any materials in your report, please quote the reference.
- You can refer to books, journals, or online resources.

ASSESSMENT CRITERIA

The assessments of the assignment will be as follows:

- **Report** – Proper Report Format   (15 marks)
- **Technical contents** – overview, technical contents and clarity   (35 marks)
- **Completeness of topic presented** – Both in report and presentation (10 marks)
- **Presentation**   (20 marks)
- **Individual score** – Both in report writing and presentation   (20 marks)

POSSIBLE TOPICS

1. Manual and logical acquisition
2. Physical acquisition
3. Current developments in mobile forensics.
4. iPhone forensics
5. Android Forensics
6. Challenges in mobile forensics
7. Mobile devices anti-forensics
8. Developing process for examining cellular phone information
9. Evaluation and analysis of Mobile Forensic Tools
10. Mobile Forensics Tools and Techniques
11. Forensics on Flash Memory in Mobile Devices
12. Forensics on Wearable Devices
13. File Systems on Mobile Devices
14. Mobile forensics on GPS data
15. Recent advances in mobile forensics
16. An Analysis of the Digital Forensic Examination of Mobile Phones
17. Digital Forensics for the Internet of Things (IoT)
18. AI and Digital Mobile Forensic
19. Mobile Forensics challenges from Law Enforcement Perspective
20. Challenges in the field of iOS device forensics

The groups are free to propose any topic that is not listed above, please approach your instructor(s) for consultation and confirmation on your newly proposed topic.

Instructor may interview you on your report to ascertain that you did the work yourself. Failure to explain any part of your report may result in a failure for this assignment.

-- The End --