Task Performance

Cryptography

Objective:

At the end of the exercise, the students should be able to:

- Perform different methods of encryption for information security.

Materials Needed:

- MS Excel

Procedures:

1. Encrypt the following plaintexts based on the given technique.
    - ASSURANCE
    - CYBERSECURITY
    - INFINITY
    - SAMPLING
    - MORNING
    - EXAMINATION
    - MASTER
    - SYSTEM
    - VISUAL STUDIO
    - BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

    a. **Caesar Cipher**
        i. Shift: 3
    b. **Keyword Cipher**
        i. Keyword: METHODS
    c. **Giovanni's Cipher Method**
        i. Key letter: C
        ii. Keyword: METHODS
    d. **Transposition Cipher Technique**

2. Place your answers on MS Excel.
3. Submit your output to your instructor.

GRADING RUBRIC:

Criteria	Exemplary (4)	Acceptable (3)	Developing (2)	Beginning (1)	No Output (0)
Task Completion	The student completed the laboratory activity.	The student completed 75% of the laboratory activity.	The student completed 50% of the laboratory activity.	The student completed less than 50% of the laboratory activity.	The student started the laboratory activity but did not make significant progress.
Demonstration of Concepts	The student demonstrated	The student demonstrated	The student demonstrated	The student did not demonstrate	The student did not demonstrate

mastery of the topic covered by the laboratory activity.	strong knowledge of the topic covered by the laboratory activity.	some understanding of the topic covered by the laboratory activity but made connections among ideas.	an understanding of the topic covered by the laboratory activity beyond a surface level.	an understanding of the topic covered by the laboratory activity.