

Republic of the Philippines Sorsogon State University Bulan Campus COLLEGE OF INFORMATION & COMMUNICATION'S TECHNOLOGY





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BSIT 4-1

ACTIVITY TITLE: "CIA Triad Application (Hands-on)"

Objective:

To perform hands-on activities that demonstrate the core principles of the CIA Triad and how they help protect information systems.

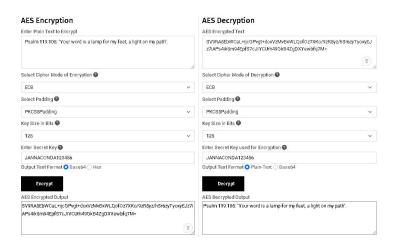
Instructions:

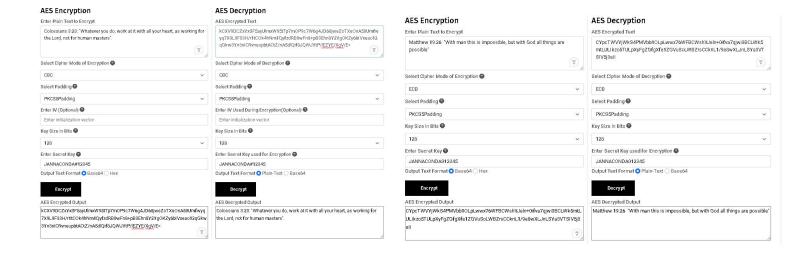
 Perform the three tasks below using your computer and the recommended tools. For each task, record your answers, observations, and screenshots (if required) in your lab worksheet or logbook.

A CONFIDENTIALITY TEST – BASIC DATA ENCRYPTION

Tool: Online AES Encryption/Decryption tool

https://www.devglan.com/online-tools/aes-encryption-decryption





Guide Questions (Answer in your worksheet):

- What is the purpose of encrypting data?
- The purpose of encrypting data is to secure confidential information by transforming it into a coded version that cannot be easy to read but unauthorized users. This ensures that only authorized individuals who have the right key or password may read the original data.
- How does encryption contribute to confidentiality?
- Encryption helps to guarantee confidentiality because sensitive information does not reveal itself to unauthorized users. Even if others intercept the data, encryption keeps the information secret until decrypted using the right decryption key.
- What would happen if someone intercepted the encrypted data but didn't have the password?
- If the intercepted data is encrypted and the individual does not have the password or key, they would only see unreadable, jumbled text (ciphertext). They would be unable to comprehend or utilize the original information, maintaining confidentiality.