

10. Which statement about Sniffer software is true?
- It used by malicious websites to sniff data from cookies stored on the user's hard drive.
 - illegal software for decoding encrypted messages transmitted over a shared intranet channel.
 - It used by bus topology intranets to sniff for carriers before transmitting a message to avoid data collisions.
 - It an illegal program downloaded from the web to decode encrypted data of Internet customers. And sniff passwords their passwords.
 - It is used by network administrators to analyze network traffic.

Problems

1. ENCRYPTION

The coded message that follows is an encrypted message from Brutus to the Roman Senate. It was produced using the Caesar cipher method, in which each letter is shifted by a fixed number of places (determined by the key value).

OHWV GR MXOLXV RQ PRQGDB PDUFK
48 GUHV: WRJD FDXDO (EBRG)

Required

Determine the key used to produce the coded message and decode it.

2. ENCRYPTION

- Develop a Caesar cipher-type encryption algorithm with a little more complexity in it. For example, the algorithm could alternatively shift the cleartext letters positive and negative by the amount of the key value. Variations on this are limitless.
- Select a single-digit key.
- Code a short message using the algorithm and key.
- Give your instructor the algorithm, key, cleartext, and ciphertext.
- Optional: Your instructor will randomly redistribute to the class the ciphertext messages completed in part d above. You are to decode the message you receive as an additional assignment.

3. SEALS OF ASSURANCE

Visit 10 websites that sell products or services, and record the following for each:

- The URL.
- Did the site issue you a cookie?

- Did the site have a published privacy policy?
- Does the site reserve the right to distribute or sell customer data?
- Does the site use encryption for transmission of personal/financial data?

4. CERTIFICATION AUTHORITY LICENSING

Research the current state of certification authority licensing in the United States and Europe. Write a brief report of your findings.

5. CLOUD COMPUTING.

Write an essay on the relative benefits of cloud computing for large and small companies.

6. ELECTRONIC DATA INTERCHANGE

The purchase order for one firm is the source document for the sales order of another firm. Consider the following purchase order and sales order data elements stored for two firms. Discuss any differences that may be problematic in transferring information between the two firms.

Purchasing Firm:

GH BETTIS

A Division of Galveston-Houston Corp.

1200 Post Oak Blvd.

P.O. Box 4768

Houston, TX 77637-9877

Data Elements

Vendor Number

Vendor Name

Vendor Address

Vendor City