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Mata Kuliah: Keamanan Jaringan Komputer

Task 2:

What is the standard required for handling credit card information?

Jawab:

PCI DSS

Task 3:

What do you call the encrypted plaintext?

Jawab:

Ciphertext

What do you call the process that returns the plaintext?

Jawab:

Decryption

Task 4:

Knowing that **XRPCTCRGNEI** was encrypted using Caesar Cipher, what is the original plaintext?

Jawab:

ICANENCRYPT

Jawaban yang paling memungkinkan adalah ICANENCRYPT pada key 15

```
🕏 main.py > 😭 caesar_decrypt
      # Febry Afriansyah
      # 09011382126166
      encrypted text = "XRPCTCRGNEI"
      alphabet = "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
      Codeium: Refactor | Explain | Generate Docstring | X
      def caesar_decrypt(ciphertext, shift, alphabet):
          decrypted_text = ""
          for char in ciphertext:
               if char in alphabet:
                   index = (alphabet.index(char) - shift) % len(alphabet)
                   decrypted text += alphabet[index]
               else:
                   decrypted text += char
          return decrypted text
17
      # Try all possible shifts
      for shift in range(1 26)
PROBLEMS
          OUTPUT TERMINAL
                              PORTS
                                     SEARCH ERROR
                                                  COMMENTS
                                                               DEBUG CONSOLE
Shift 13: KECPGPETARV
Shift 14: JDBOFODSZQU
Shift 15: ICANENCRYPT
Shift 16: HBZMDMBQXOS
Shift 17: GAYLCLAPWNR
Shift 18: FZXKBKZOVMQ
Shift 19: EYWJAJYNULP
Shift 20: DXVIZIXMTKO
Shift 21: CWUHYHWLSJN
Shift 22: BVTGXGVKRIM
Shift 23: AUSFWFUJQHL
Shift 24: ZTREVETIPGK
Shift 25: YSQDUDSHOFJ
   (feb&Feb-50PNMKGV)-[/mnt/d/FEB/Documents/kuliah/S7/KJK/chryptography-basic]
```

Task 5:

Should you trust DES? (Yea/Nay)

Jawab:

Nay

When was AES adopted as an encryption standard? Jawab:

2001

Task 6:

What's $1001 \oplus 1010$?

Jawab:

1 🕀 1 = 0

0 = 0 = 0

1⊕0=1

 $0 \oplus 1 = 1$

What's 118613842%9091?

Jawab:

 $118613842 \bmod 9091 = 3565 \,$ karena $118613842 \,$ dibagi 9091 adalah 13050 , dengan sisa 3565, yaitu: 118613842 = 13050 . 9091 + 3565 .

What's 60%12?

Jawab:

 $60 \mod 12 = 0$ karena $60 \mod 12$ adalah 5, dengan sisa 0, yaitu: 60 = 12 times 5 + 0.