PRAKTIKUM KRIPTOGRAFI

Exercise 2

Disusun oleh:

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PROGRAM STUDI S-1 TEKNIK INFORMATIKA

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

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1. **Exercise Shift Cipher**

A. Enkripsikan **HASKELL** dengan K = 20

Jawab :

E(7) = (7 + 20) mod 26 = 27 mod 26 = 1 → B
E(0) = (0 + 20) mod 26 = 20 mod 26 = 20 → U
E(18) = (18 + 20) mod 26 = 38 mod 26 = 12 → M
E(10) = (10 + 20) mod 26 = 30 mod 26 = 4 → E
E(4) = (4 + 20) mod 26 = 24 mod 26 = 24 → Y
E(11) = (11 + 20) mod 26 = 31 mod 26 = 11 → F
E(11) = (11 + 20) mod 26 = 31 mod 26 = 11 → F

Hasil Enkripsi: **BUMEYFF**

B. Ubah **ETURF** menjadi Plaintext dengan K = 12

Jawab :

D(4) = (4 – 12) mod 26 = - 8 mod 26 = 18 → S
D(19) = (19 – 12) mod 26 = 7 mod 26 = 7 → H
D(20) = (20 – 12) mod 26 = 8 mod 26 = 8 → I
D(17) = (17 – 12) mod 26 = 5 mod 26 = 5 → F
D(5) = (5 – 12) mod 26 = -7 mod 26 = 19 → T

Hasil Dekripsi: **SHIFT**

2. **Exercise ROT 13**

Dekripsikan **cenxgvxhz xevcgbtensv** dengan ROT 13

Jawab :

ROT13(c) = p
ROT13(e) = r
ROT13(n) = a

ROT13(x) = k
ROT13(g) = t
ROT13(v) = i
ROT13(x) = k
ROT13(h) = u
ROT13(z) = m

ROT13(x) = k
ROT13(e) = r
ROT13(v) = i
ROT13(c) = p
ROT13(g) = t
ROT13(b) = o
ROT13(t) = g
ROT13(e) = r
ROT13(n) = a
ROT13(s) = f
ROT13(v) = i

Hasil Dekripsi: **praktikum kriptografi**