EXERCISE 2 PRAKTIKUM KRIPTOGRAFI



Disusun oleh:

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Exercise Shift Cipher



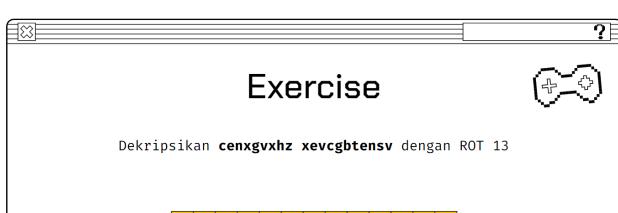
- Enkripsikan **HASKELL** dengan K = 20
- Ubah ETURF menjadi Plaintext dengan K = 12

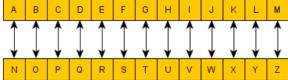
Tulis setiap langkah langkahnya!

Α	В	С	D	E	F	G	н	-1	J	K	L	М
0	1	2	3	4	5	6	7	8	9	10	11	12
N	0	Р	Q	R	s	т	U	٧	w	Х	Υ	z
10	1.4	15	16	17	10	10	20	21	22	23	24	25

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Soal 1
PlainText: HASKELL
Key: 20
[H, A, S, K, E, L, L] = [7, 0, 18, 10, 4, 11, 11]
Proses Enkripsi:
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 = 5 = F
E(11) = (11 + 20) \mod 26 = 31 \mod 26 = 5 = F
[1, 20, 12, 4, 24, 5, 6] = [B, U, M, E, Y, F, F]
Hasil E(x): BUMEYFF
Soal 2
CipherText: ETURF
Key: 12
[E, T, U, R, F] = [4, 19, 20, 17, 5]
Proses Dekripsi:
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
[18, 7, 8, 5, 19] = [S, H, I, F, T]
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Hasil D(x): SHIFT





CipherText: CENXGVXHZ XEVCGBTENSV

Proses Dekripsi:

[C, E, N, X, G, V, X, H, Z] = [P, R, A, K, T, I, K, U, M]

[X, E, V, C, G, B, T, E, N, S, V] = [K, R, I, P, T, O, G, R, A, F, I]

Hasil D(x): PRAKTIKUM KRIPTOGRAFI