TUGAS 2 PRAKTIKUM KRIPTOGRAFI



Disusun oleh:

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PROGRAM STUDI S-1 TEKNIK INFORMATIKA FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNIVERSITAS PADJADJARAN JATINANGOR

2024

Enkripsikan nama lengkap anda menggunakan Affine Cipher dan kembalikan menjadi plainteks, a=9 b=[2 digit NPM akhir].

A	В	C	D	Е	F	G	н	1	J	K	L	М
0	1	2	3	4	5	Ö	7	8	9	10	11	12
N	0	Р	Q	R	s	т	U	٧	W	Х	γ	Z
13	14	15	16	17	18	19	20	21	22	23	24	25

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PlainText: MUHAMAD RUMI RIFAI
A = 9, B = 26
Key: 26
[M, U, H, A, M, A, D] = [12, 20, 7, 0, 12, 0, 3]
[R, U, M, I] = [17, 20, 12, 8]
[R, I, F, A, I] = [17, 8, 5, 0, 8]
Proses Enkripsi:
[M, U, H, A, M, A, D] = [12, 20, 7, 0, 12, 0, 3]
E(12) = (9(12) + 26) \mod 26 = 134 \mod 26 = 4 = E
E(20) = (9(20) + 26) \mod 26 = 206 \mod 26 = 24 = Y
E(7) = (9(7) + 26) \mod 26 = 89 \mod 26 = 11 = L
E(0) = (9(0) + 26) \mod 26 = 26 \mod 26 = 0 = A
E(12) = (9(12) + 26) \mod 26 = 134 \mod 26 = 4 = E
E(0) = (9(0) + 26) \mod 26 = 26 \mod 26 = 0 = A
E(3) = (9(3) + 26) \mod 26 = 53 \mod 26 = 1 = B
[4, 24, 11, 0, 4, 0, 1] = [E, Y, L, A, E, A, B]
[R, U, M, I] = [17, 20, 12, 8]
E(17) = (9(17) + 26) \mod 26 = 179 \mod 26 = 23 = X
E(20) = (9(20) + 26) \mod 26 = 206 \mod 26 = 24 = Y
E(12) = (9(12) + 26) \mod 26 = 134 \mod 26 = 4 = E
E(8) = (9(8) + 26) \mod 26 = 98 \mod 26 = 20 = U
[23, 24, 4, 20] = [X, Y, E, U]
[R, I, F, A, I] = [17, 8, 5, 0, 8]
E(17) = (9(17) + 26) \mod 26 = 179 \mod 26 = 23 = X
E(8) = (9(0) + 26) \mod 26 = 98 \mod 26 = 20 = U
E(5) = (9(5) + 26) \mod 26 = 71 \mod 26 = 19 = T
E(8) = (9(8) + 26) \mod 26 = 98 \mod 26 = 20 = U
E(0) = (9(0) + 26) \mod 26 = 26 \mod 26 = 0 = A
[23, 20, 19, 20, 0] = [X, U, T, U, A]
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Hasil E(x): EYLAEAB XYEU XUTUA