

Nama : Hanifah Putri Trisnawati

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#### Mixed Monoalphabetic

- Plainteks: Nama\_Anda\_Nama\_Ibu\_Anda
- Key=Definisikan sendiri

#### Easier Monoalphabetic

- Plainteks: Nama\_Anda\_Nama\_Ibu\_Anda
- Key>Nama\_Depan\_Ayah

#### General Monoalphabetic

- Plainteks: Nama\_Anda\_Nama\_Ibu\_Anda
- Key>Nama\_Depan\_Ayah

#### VIGENERE

- Plainteks: Nama\_Anda\_Nama\_Ibu\_Anda
- Key>Nama\_Depan\_Ayah

### 1. Mixed Monoalphabetic

Planteks : Nama\_Anda\_Nama\_Ibu\_Anda

Key : Definisikan sendiri ( KRIPTO )

cipher alphabet :

K R I P T O A B C D E F G H J L M N Q S U V W X Y Z

Tabel Pemetaan

A	K
B	R
C	I
D	P
E	T
F	O
G	A
H	B
I	C
J	D
K	E
L	F
M	G
N	H

O	J
P	L
Q	M
R	N
S	Q
T	S
U	U
V	V
W	W
Q	X
Y	Y
Z	Z

### Plainteks Soal

Nama\_Anda>Nama\_Ibu\_Anda

- $N \rightarrow H$
- $A \rightarrow K$
- $M \rightarrow G$
- $A \rightarrow K$
- 
- $A \rightarrow K$
- $N \rightarrow H$
- $D \rightarrow P$
- $A \rightarrow K$
- 
- $N \rightarrow H$
- $A \rightarrow K$
- $M \rightarrow G$
- $A \rightarrow K$
- 
- $I \rightarrow C$
- $B \rightarrow R$
- $U \rightarrow U$
- 
- $A \rightarrow K$
- $N \rightarrow H$
- $D \rightarrow P$
- $A \rightarrow K$

Hasil Cipherteks

## HKGK\_KHPK\_HKGK\_CRU\_KHPK

### 2. Eaiser Monoalphabetic

Planteks : Nama\_Anda\_Nama\_Ibu\_Anda

Key : Nama\_Depan\_Ayah

Enkripsi per Huruf

Plain	Key	$(P+K) \bmod 26$	Cipher
N(13)	N(13)	$13 + 13 = 26$	A
A(0)	A(0)	$0 + 0 = 0$	A
M(12)	M(12)	24	Y
A(0)	A(0)	0	A
A(0)	D(3)	3	D
N(13)	E(4)	17	R
D(3)	P(15)	18	S
A(0)	A(0)	0	A
N(13)	N(13)	$26 \rightarrow 0$	A
A(0)	A(0)	0	A
M(12)	Y(24)	$36 \bmod 26 = 10$	K
A(0)	A(0)	0	A
I(8)	H(7)	15	P
B(1)	N(13)	14	O
U(20)	A(0)	20	U
A(0)	M(12)	12	M
N(13)	A(0)	13	N
D(3)	D(3)	6	G
A(0)	E(4)	4	E

Gabungkan Hasil Cipherteks

AAYA\_ADRSAAKAPOUMNGE

### 3. General Monoalphabetic

Plainteks : Nama\_Anda\_Nama\_Ibu\_Anda

Key : Nama\_Depan\_Ayah

- Buat *substitution alphabet* dari kunci : N A M D E P Y H
- Lalu tambahkan huruf-huruf alfabet lain yang belum muncul, dalam urutan A–Z :

N A M D E P Y H B C F G I J K L O Q R S T U V W X Z

- Buat table substitusi

Normal Alphabet	Cipher Alphabet
A	N
B	A
C	M
D	D
E	E
F	P
G	Y
H	H
I	B
J	C
K	F
L	G
M	I
N	J
O	K
P	L
Q	O
R	Q
S	R
T	S
U	T
V	U
W	V
X	W
Y	X
Z	X

### Enkripsi plainteks

Plainteks:

N A M A \_ A N D A \_ N A M A \_ I B U \_ A N D A

Hasil Akhir

Cipherteks : J N I N \_ J D N J \_ N I N \_ B A T \_ N J D N

### 4. Vignere

Plainteks : Nama\_Anda\_Nama\_Ibu\_Anda

Key : Nama\_Depan\_Ayah

- Plainteks : N A M A A N D A N A M A I B U A N D A
- Kunci (ulang hingga sama panjang): N A M A D E P A N A Y A H N A  
M A D E P A N A

Huruf	Nilai
A	0
B	1
D	3
E	4
H	7
I	8
M	12
N	13
P	15
U	20
Y	24

Enkripsi

$$C_i = (P_i + K_i) \bmod 26$$

P	K	$(P+K) \bmod 26$	Cipher
N(13)	N(13)	$26 \rightarrow 0$	A
A(0)	N(13)	0	A
M(12)	M(12)	24	Y
A(0)	A(0)	0	A
A(0)	D(3)	3	D
N(13)	E(4)	17	R
D(3)	P(15)	18	S
A(0)	A(0)	0	A
N(13)	N(13)	0	A
A(0)	A(0)	0	A
M(12)	Y(24)	$36 \rightarrow 10$	K
A(0)	A(0)	0	A
I(8)	H(7)	15	P
B(1)	N(13)	14	O
U(20)	A(0)	20	U
NA(0)	M(12)	12	M
N(13)	A(0)	13	N
D(3)	D(3)	6	G
A(0)	E(4)	4	E

HASIL CIPHER

AAYA\_ADRS\_AAK\_APOU\_MNGE