

Nama : Vernandika Stanley Hansen
NPM : 140810220031

Exercise 5

Exercise

- Enkripsikan Plaintext **TAHUSUMEDANG**
- Gunakan Key **MAKANAJA**

Gunakan **Vigenere** dan **Autokey Cipher** !!

A	B	C	D	E	F	G	H	I	J	K	L	M
0	1	2	3	4	5	6	7	8	9	10	11	12
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
13	14	15	16	17	18	19	20	21	22	23	24	25

Plain Text = TAHUSUMEDANG

Key = MAKANAJA

Vigenere Cipher

	Vigenere Cipher		
PT :	TAHUSUMEDANG	19 0 7 20 18 20 12 4 3 0 13 6	
Key :	MAKANAJA	12 0 10 0 13 0 9 0	

PT	T	A	H	U	S	U
n(PT)	19	0	7	20	18	20
n(K)	12	0	10	0	13	0
$(n(PT) + n(K)) \bmod 26$	5	0	17	20	5	20
CT	F	A	R	U	F	U
n(CT)	5	0	17	20	5	20
n(K)	12	0	10	0	13	0
$(n(CT) - n(K)) \bmod 26$	19	0	7	20	18	20
PT	T	A	H	U	S	U

M	E	D	A	N	G
12	4	3	0	13	6
9	0	12	0	10	0
21	4	15	0	23	6
V	E	P	A	X	G
21	4	15	0	23	6
9	0	12	0	10	0
12	4	3	0	13	6
M	E	D	A	N	G

Hasil Cipher Text = FARUFUVEPAXG

AutoKey Cipher

	AutoKey Cipher	
PT :	TAHUSUMEDANG	19 0 7 20 18 20 12 4 3 0 13 6
Key :	MAKANAJA	12 0 10 0 13 0 9 0
Extend Key :	MAKANAJATAHU	12 0 10 0 13 0 9 0 19 0 7 20

PT	T	A	H	U	S
n(PT)	19	0	7	20	18
K	M	A	K	A	N
n(K)	12	0	10	0	13
$(n(PT) + n(K)) \bmod 26$	5	0	17	20	5
CT	F	A	R	U	F
n(CT)	5	0	17	20	5
n(K)	12	0	10	0	13
$(n(CT) - n(K)) \bmod 26$	19	0	7	20	18
PT	T	A	H	U	S

U	M	E	D	A	N	G
20	12	4	3	0	13	6
A	J	A	T	A	H	U
0	9	0	19	0	7	20
20	21	4	22	0	20	0
U	V	E	W	A	U	A
20	21	4	22	0	20	0
0	9	0	19	0	7	20
20	12	4	3	0	13	6
U	M	E	D	A	N	G

Hasil Cipher Text = FARUFUVEWAUA