Nama: Endan Setar Lembayung NIM: E1E120065

Metode KSA (Key Scheduling Algoritma)

Kunci: Saputral, len (K) = 8

Ko: S= 115, K1: a= 97, K2: P= 112, K3: U= 117, K4: t= 116

Ks: r = 119, K6: a = 97, K7:1 = 49.

Array S: [0,1,2,3,4,5,..., 100,101,102,103,104,105,..., 253,254,255]

* Iterasi Pertama

i=0, j=0

j = (j + S[i] + K[i mod length (K)] mod 256

= (0+0+ K [0 mod 8]) mod 256

= (0+K[0]) mod 256

= 115 mod 256

j = 115/

Swap (S[i], S[i])

Swap (SEO], S[115])

Array S=[115,0,2,3,4.5, ..., 113,114,0,116,117, ..., 250,251,252,253,254,255]

* Iterasi Kedua

i=1 , j=115

j=(j+S[i]+K[i mod lenghk(K)] mod 256

= (115+S[1] + K[1 mod d]) mod 256

= (115+1+ K[1]) mod 296

= (116 + 97) mod 256

= 213 mod 256

j = 213/

Swap (Stij, Stij)

Swap (S[1], S[213])

Array S= [115, 213, 2, 3, 4, 5, 6, 7, ..., 113, 114, 0, 116, 117, ..., 211, 212, 1, 214, ..., 252, 253, 259, 259]

```
* Iterasi Ketiga
  i=2, j=213
         j=(j+S[i]+K[i mod length (K)]) mod 256
          = (213+5[2]+K[2mod 8]) mod 256
          = (213 + 2 + K[2]) mod 256
          = (215 + 112) mod 256
          = 327 mod 256
         J = 71/
   Swap (Sci], Sci]
   Swap (S[2] S[71])
   Array s= 115,213,71,3,4,5,6,7,...,69,70,2,72,73,...,113,114,0,116,117,...,
             211, 212, 1, 214, 215, ---, 253, 254, 255
* Iterasi Kelengipat
   1=3, 1=71
          j: (j+S[i]+K[i mod length (k)]) mod 256
            = (71+S[3] + K[3 mod 8]) mod as6
            = (71+3+K[3]) mod 256
            = (79+117) mod 256
            = 191 mod 256
           j = 191/
   Swap (SCI), SCII)
   Swap (S[3], S[191])
   Array s = [115,213, 71, 191, 4.5, 6,7, ..., 69, 70, 2, 72, 73, -.., 113, 119, 0, 116, 117, ...
               190,3,192,193, ---,211,212,1,214,---, 253,254,255
* Iterasi Kelima
  i=4. j=191
         j=(j+S[i]+K[i mod lenghz(K)]) mod as6
          = (191 + S[4] + K[4 mod &]) mod 256
          = (191+4+ k[4]) mod 256
           = (195 + 116) mod 256
           = 311 mod 256
         J = 55/
 Swap (SCi), SCi)
 Swap (S[4], S[55])
  Array S: (115, 213, 71, 191, 55, 5, 6, 7, --, 53, 54, 4, 56, 57, --, 70, 2, 72, 73, --,
             190,3,192,193, ---, 211,212, 1,214: --, 253,254,255
(KIKY)
```

Metale PRGA (Pscudo-Random Generation Algorithm)

INTERCOR LANGUE (LECTURE)	1 1100	
0		
Diketahui:	77 0 200 6 2	2 23 54.4.56.
Array s = [115, 213, 71, 191, 55, 174, 21	, ++, 0,, 20, 6, 2	116 173.5.176
, 70, 2, 72, 73, 74, 75,	76, 7, 78,, 119,0	254 254 255
, 190, 3, 192, 193,, 3	211,212,1,219,,	455,451,455]
Plaintext = [2063]		A 1
Po -> 2 = 00 1100 10	P ₂ -> 6 = 00110110	
P1 -> 0 = 00110000	P3 -> 5=0011	10/01
* Iterasi Pertama		The property
i=0, j=0		
for index = 0 to length (P)-1		
=0 to (4) -1		
= 0 to (3)		1991 1997 1997 1997 1997 1997 1997 1997
i = (i+1) mod 256		rein sedel
= (0+1) mod 256	Supplied Sup	FIRE AND LOND
i = 1	- 13 man 1 /	124270-
j = (j + s[i]) mod 256	E= (S[1] + S[213	1) mad 256
2 (0 + S[1]) mod 256	= (1+213) mod 256	
= (0 +213) mod 256	t= 214	w zac)
= 213 mod 256	U = S[214]	++8, , (
j= 213/	c= 4 + P[o]	-11 / 12 \astq2
Swap (s[i], sri])	= 214 0 2	Tripa Lata Head S
(S[1], S[213])	= 11010110	as offer want
WEST E 2017 - 14 2 4 7 2 4 8 7 1 2 4 8 7 1 2 4 8 7 1 2 4 8 7 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	00110010	Ð
1002 600	11100100	—) 228 = ä
* [terasi Kedua		
i=1, j=213		manual sacult
for index = $0 \text{ to } (3)$		rock table
i=(1+1) mod 256	I for deliver how to	- D. 1-44.1-2
= 2	Paragil to John S.	
j = (j + S[i]) mod 256	A15/600/1	
= (213 + S[2]) mod 256	7 n-4 , 1 5 m	160 + 20/2
= (213 + 71) mod 256		
= 284 mod 256	Aller of Marsell B	
j = 28/	F CG AND TO THE	

	Date	
Swap (s[i].s[i])	u = S[99]	
(5[2],5[28])	C=U @ PEII	
t = (S[2] + S[28]) mod 256	= 99 0 O	
= (28 + 71) mod 256	=01100011	
= 99 mod 256	00110000 @	
t = 99	01010011 -> 83 = S (capital S	
Iterasi ketiga		
i=2, j=28	t= (S[3] + S[219]) mod 256	
for index = 0 to 3	= (219 + 191) mod 256	
i= (2 + 1) mod 256	= 410 mod 256	
= 3	t = 154	
j=(j+s[i]) mod 256	u = 5 [154]	
= (28+5[3]) mod 256	c = 4 8 P[2]	
= (28 + 191) mod 256	= 154 Ø G	
= 219 mod 256	= 10011010	
j = 219	00110110 0	
Swap ([[i], S[i])	10101100 -> 172 = -	
(5[3], 5[219)		
* Iterasi Keempat	t=(s[4]+S[18]) mod 256	
i=3, j=219	= (18 + 55) mod 256	
for index = 0 to 3	= 73 mod 256	
i = (3 +1) mod 256	t = 73	
= 4	u = s[73]	
j = (j + S[i]) mod 256	C=4 @ P[3]	
= (219+S[4]) mod 256	= 73 🕀 5	
= (219 + 55) mod 256	- 01001001	
= 274 mod 256	00110101	
J = 18/	01111100 -> 124 = 1 (Vertical bo	
Swap (s[i], s[i])		
(s[4], s[v8])		

(KKY)