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Nama
NIM
      : E1E1 20 047
Kelas : Ganili
Tugas Kriptograpi
Key-Scheduling Algorithm (KSA)
Kunci = Saparat, len(K) = 8
Arrays = [0,1,2,3,4,5,6,7,8,...,100,101,102,103,...,257,254,255]
or I terasi performa 1=0
                 TE THE WEST STRUCTS
   1=0
  => ]= (]+5[i]+ K[i mod len (x)]) mod 256
      2 (0+0+ × [0%8]) % 25 C
      = ( K [0] ) %256
      = ("5") 1/ 256 => nilai derimal don "5" = IV
      2 115% 256
      1 = 115
      Swap (s[i], s [i])
                                        J85 Y ( "4" + 4+4)
                                      13 5 (FH + VE)
      Swar (SLO], S[IN])
                                            131 4 101
     Array 5. [115, 1, 2, 3, 4, 5, 6, 7, 110, 111, 112, 113, 114, 0, 116, 117, 199, 200, 201, 202,
              205, 204, 205, ..., 40, 251, 251, 253, 254, 255]
                        115. 215, 27, 29, 21, 212
1) Ibras kedua i=1
     J= 115 10 00 000 501 800 1889
      => J= (J+10)+ + [i % len (+)]) x256
          = (1154 2034 KL1 203) 1555C
          - (115+ 1+K[1) )%.266
          = (116+ "a") 1. 256 => derimal dari "a"=97
          = (116+97)/214 (1/11) M 2 13 14 (1/12)
          2 213 % 266 Mar ( transport ( 187 + 187)
         1 = 213
        Sway (SEi7, SEJ])
        Supar (5(1),5[213])
      Array 5. [115,213,2,3,4,5,6,7, 112, 113, 114, 0,116, 210, 211, 212,1,
               214, ..., 250, 251, 252, 253, 254, 255)
```

```
>> (teras ketiga
                 1=2
  1-213
 4) = (8+5[i]+K[1 % 1en (K)]) %,206
                                                             2015/
    = (213 + S[2)+KC2% B ] % 256
                                   a defined don p' = 112 many of special
    = (213 + 2 + K[2)) 1/286
    = (218 + "p") % 256
    2 (at + In) 6 256
    2 (327 % 256
                                          5 - / Wood Image?
    1 = 71
          ([1] 2, [i] b)
    Swap
          (5[2],5[71])
    Swap
          S = [115, 213, 71,3, 4,5,6,7, 69, 70,2,72, 112, 113, 14,0]
   Array
             116, ... ,270, 211,212, 1, 214, -,250,251, 262, 253, 254,255)
=) I foraci ke empat 4; 1=8
   J=71
   > j= (j= s Li] + k E; % lin (k) ]) % 256
        = (71+SC))+ + [3%8])%256
                                  ) desimal dari "4" = 117
        = (71+3+15[3]) 1/2 216
        = (74+ "4") / 256
                                             12 [JU] mas
        = (74 + 117) % 256
       = 191. 7. 256
      1 = 191
            (SCI), SCI) The see with the police
      Swap
      Swap (5 [3], 5 [191])
            s = [115, 213, 71, 191, 4, 5,6,7, ..., 60,70, 2,72, ..., 1/2,1/3, 704,
     Array
                 0,116,..., 189, 190, 3, 192, ..., 210, 211, 212, 1, 214, ..., 200,
                 251, 252, 253, 254, 255)
 => 1 hrasi ke lima 1 = 4
     j= 191 my 15 min howards of
     =) j= (j= S[i]+k[i% len (k)]) 1.200
        = (191 + SE4)+ KE47. 83) % 25C
         = (191 + 4 + K [47) % 286
         - (195 + "t") % 256 => defined "t"=116
         2 (198 + 116) % 256
                                       Swap (S[i], S[i])
 = 311 % 256
         255 - 10 VI 112 3 17 MA 62
                                       Swap (1(4], S[55))
```

```
S = [115, 213, 71, 191, 55, 5,6,7,8, -, 57,54, 4,56, 57, -, 69, 70,2,72,
  prray
            7), --, 113, 114, 0,116, 117, ..., 185, 190, 3, 192 --, 211, 212, 1, 214,
             -.. , 250, 251, 252, 253, 254, 255
1) Iterati keenam -> ;= 5
     7=22
    a) = (j+s [i] + k[i/ (m (x)]) % 256
        = (12+222)+K(2% 6))] % 520
         = (L2+2+×[4]) 5 512.
         = (fot "r") y. 256 => dermal "r" =/14
         = (pot 114) 2 ser
         = 1344 ross
          - 174 % 256
          2 134
Array S = [115, 213, 71, 191, 55, 174, 6,7,8, --, 173, 54, 4, 56,53, --, 69, 70, 2,
                   72, 93, ..., 113, 114, 0, 116, 117, -, 172, 173, 5, 175, 176, ..., 189, 190,3,
                   132,103, -- 211, 213, 1, 214, 215, -- , 250, 251, 252, 253, 254, 255]
              trajuh -> i= 6
  e) Iterasi
      1=174
    -) j= (j+s [i] + L[i % len (k))) %256
        $ = (174+ 2[6]+ F(P 1.6]) 15 SL
          - (134+c+ FED) 1/52Cr
          2 (180+ "a") % 256 => dormal "a" -97
           - (180+97) 1.266
           2 277 % 256
         1= 21
         Swap ( x[i] . s [j])
         Ewas ( 5[6] 5[174])
         Array 5-1 115, 213, 71, 191,55,174, 21,7,8,..., 19, 20, 6,22,23, .- 53, 54, 4, 56,
                 57, -, 69, 70, 2,72,73, -, 113, 114. 0, 116,117, - 172, 173, 1761
                 176/ ... ,189, 190, 3,192, 193, ... 211,212, 1,214, 215, ..., 250, 251, 252, 257,
                  254,255.
     o) Ibrasi ke delayan -> iz7
           Ja 21
         => j= (]+5[i] + [[1 % lon (x)]) % 266
              2 (21 +5(7) + k(7% 83) %251
              > (2+9+ =[7]) % 256
```

```
= .(20 + "1") 7. 25 5 -7 dring "1" . 49
   = (28+ 49) 1. 256
    - 27 % 250
   7 = 77
    Swap (5 E1), S Ci]
     Swap (5 [7], 5[7])
     Array 5 = [115, 213, 71, 151, 15, 21, 77, 8, ..., 19, 20, 6, 22, 23, .., 53, 54, 4, 86, 57,
               - , Cg, 70, 2,72, 73, 74, 71,74, 7, 78..., 113, 114, 0, 116, 112...) >2,173
                5,175,175,...,119. 40, 3, 192,193,1..., 211, 212, 1,214, 215,...,200,25%
                 252, 253, 254, 255 1.
 Pscudo-Random Generation Augmithm (PR69)
Array 5 = [115, 213,71,191, 15, 174,21,77, 8,9,10,..., 20,6,22, 54, 956,... 70,2,72,
            75, 74, 75, 2 6, 7, 78, ..., 114, 0, 16, ... 173, 5, 145, ..., 190, 3, 192, ..., 212, 1, 214, ..., 255]
      Elterasi Pertama
                       P= 2047
       1:0
       1 = 0
       For Index = 0 to leigth (P)-1
       For index . 0 to (4)-1 = 0 to (3)
               i = (0+1) mod 256
               1 = 1
               j = (j+5[1]) mod 256
                1 = (0+213) mod 256
                5 = 213
                                   S[i]=1 S[j] =213
                S CiJ, S CiJ
                                     S[213] + S[I] = Isi index
                = 5[1], 5[213]
                                            = 1+ 213
              t (5[1]+5[213]) mod 2rl
                 = 20mg 1+213 mod 256 = 214
               4 -5 [214)
               & voyagetes
                C = 200 P [O]
                  , 214 8 2
                   = 11010110
                     DO110010 4
                    11100100
                   = 728 = 9"
```

```
Iteraci Kedua
 j=1 j=213
 for index : 0 to (3)
                                                             CHATTER I
    i = (iti) mod 216
    i . (1+1) mod 256
   1 . 2
    i. (its rid mod 216
     J= (213+ S[2]) mod 256
     J= (213+ 71) mod 256 = 284 mod 256
      Swap (stiz, stjj) = (rtez, stest)
      4: (5[2] + 5[28] mod 256
      t = (28+71) mod 256 = 99 mod 26
       4 = 99
       [8872 = P
       [1] 6 P = 5
                             ([m] [11] [([] ([] ([] 2) good
         - 9900
         11000110 4
                                 do to (1817 188) 11
          00010000
                     - 83 = S (capital s)
          01110011
   Iterasi Ketiga
   i=2 j=28
   For index = 0 to length (P)-1
          = 0 to (4):1
                                   (XXIVVIO
       i= (1+1) mod 256
                                                100 N
      1: (2+1) mod 256
                                   Linguigo.
       1: 3
       j: (j &s [i]) mod 256
       1: (28+ 5(5)) mod 26
       1 = (28+ 191) mod 206 = 219 mod 256
                                                 - 10 2'al sepenial
       j= 219
       Swap (S [i], S [j]) = (S[3], S [219])
                                                expenses and assembly
        t= ( S(3] + S[219]) mod 256
        6 = (215 + 191) mod 256 = 410 mod 256
        6 = 154
```

