Nama: La Ode Muhamad Ilham Nim : E1E12030 Kelas : Genap Meta kullah: Kriptografi KSA (key Scheduling Algorithem) Inisiausasi: So = Si ... Sess = 255 Key = Sapuira 1 > length key = 8 Iterasi ke-0 1 = 0 j = 0 S= 115 Iterasi ke-1 ) = (j+s[i]+k(i mad len (k)]) much 256 1=01 ]=115 a = 97 J= [j+s[i]+k[imod leu(k)s] mod 256 = (0+0+k [6 mod 85) mod 206 = (0 +k [0] mad 156 = (45+14k (1 mod 8]) mod 256 = (0 + 115) mad 256 = (116 + K [1] mod 25% = 115 Mod 256 = (116+97) mod 258 = 213 mad 25% 7 = 115 J = 213 [is] 1, [o] 2= [t] 2, [i] 7 = qows Swap=S[i] S[1] = S[i] S[213 5 = 115,73,11,516,7...,14,0,116-25-5' = 115,213, 3,4,5...114,0,1/6.2121,214, .. 225 Herasi læ = 2 iterasi ke-193 1 = 2 ] = 213 P=112 1 = 3 ] = 71 4 = 1217 ) = (]+5[1]+k[1 mod lea(k)])mod 256 J = (j+s[i]+k[i mod len(k)]) mod 256 = (213 +2+k[2 mod 8] mod 25% = (215+ K[2]) mod 256 = (71+3+ 1 [3 mod 8]) mod 256 = ((215 + 112) mod 256 = (74+ K(3]) mod 256 = (327 mod 256) => ]=71 = (74+117) mad 256 Swap = 5 (1], 5[] = 5[7)5[71] = 191 mod 256 5= 191 5 = 115,213,71,3,4,5 ... 70,2,72 114,0,116, 212 Suep = S[i], S[j] = s [s], s[igi] 1,214 ... 250. S = 115, 213, 71, 191, 415 ... 70,2,73, ... 114,01161...195,212,1,214... 255 Iterasi ke-4 1=4 J=191 t=116 J=(1+5[i]+K[i mod len(K)( mod 256 = (191 tufk [4modo]) mod 256 = (195+ K[4]) Mod 256 = (195+116) Mod 200 = 3111 mod 256 sury = 5 [1], s[i]= 5 [4], s (5]) 1 = 55 = 115, 213, 71,191,58,5, ...54,4,56 ... 70,2,72, ... 144. 0,116,...,190,3,192,212,1,214...25

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Algoritma: Pseudo -roudom Generation Algorithm (PREA)
  Array 5 : [115,213,71,191, 55,124,21,77, 8-..,19,20,6,22,23
               53,54, 4,56,56, ... 69,70,2,72,73,74,75,76,7,78...13
               114,0,16,117, -- 172,173,5,125,176. -- 109,196,3,192
              193, 8 ... 211, 212, 1, 214, 215 ... 250, 251, 252, 253, 254, 251)
 Plainteus = "zogo"
· Literasi pertama -xidx = 6
    1 = 0
    J = 0
 =5 i = (i+1) 9 206
      = (0+1)/206
      = 17.206
  2) = (j +2 (11) / 262
     = (ot 2(11) / se
     = (0 + 213 )7.27.
     = 213
   Sugp (5[i], 5[i])
   Swap (S[1], S[213])
   Array 5 = [118, 1.71,191,55, 174,21,77,18, ... 19,20, 6, 22,23...
              53,54,4,56,57. 69,70,7,72,73,74,75,767,78.
              113,114,0,116,111, -- 122,173,5,175,176, 189,190,3,192,
              193, .. 212/213, 214/ -250, 251, 253, 24/215]
         =7 f= (s[i] +s[1]).1.256
               = (5 [1] +5(213))1.206
               = (1+213 7% 206
               = 214
            =7 = 5(+)
                = 5 (214]=214 => binner 214 = 110/0/10
            =7 = 4 DP[Idx]
                 = 4 @ p [0]
                 = 4 4 "2"=7 buner "2"=110010
                 = 11010110
                    001100 4
                    11100100
                c = "q" didesimallan menyaw 223
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Herasi ledua -7 idx =1
     1=1
     J = 213
    =71 = (1+1)/ 256
        = (1+1)/ 256
     =>) =(]+5(1] 4 256
        - [213+5[2]]. 26
         = (213 +71)/26
         = 284 1276
        = 28
     Swap = (S[i],S[j])
      Swap = 5 (27,5(28])
      Array 5 = [117,1,28,191,55,174,21,77,8,...14,20,6,72,73,...26
                27,71,29,39...53,54,4,57,67, ...64,70,7,72,73
                74,75,76,7,78...113,114,6/16,117, ... 172,173,5/175
                176, ...189, 190,3,192, 193, .. 212, 213, 219,715,...
                20122112121231241213]
        -7 += (S(i]+S[j] 0/2 250)
            = ( S(2] + 5. (18] % 200)
              - (50+H), ( 50e
             -94 1.206
             = 99
         =7 4 = 5 (+)
              ¥ 5 [49]
               = 99 => biner 99:1100011
           => c=4 + p (1dx
               ·= 4 @P [1]
                - 4 0"=76mer"0"=110000
                - 1100011
                   11 0000
                   110011
               C = "5" degual = 83
Iterasi keligu =1dx=2
    1 = Z, J=28
    1= (1+1)7,026
      =(2+1)1256
 Smob (2(11),2(11)
```

```
=> + = (s (i) ] + (s (i) ]) / 206
     = (5[3]]+5[219))/256
      = (219+191)"1, 256
     =410% 25%
      = 154
= U = 5 [+]
      = 5 [114]
      = 154 burar lay=
 => c=4@p[ldx]
     1= +4 4 P [ 2]
      = 4 0 "3"=>biner "3"= 110011
       = 10011010
          110011
         10010101
      C = "C" desimai 169
```

```
· Herasi ke empat => Idx = 3
    1=3, j=219
 => i = (i+1)7.256
      = (3+1)7.250
      = 4
  =7j = (j +5[i]) 1 256
       = (219 + 5[4])/. 256
       = (219+17).1.526
       = 274 1.256
        - 18
 Swap (SCi ], S[i])
 Swap (5(4),5(18))
  Array 5 = [115,1,28, 219,18,174,21,77,8,...,16
            17,55,19,20,6,22,23,24,25,26,27
            71,29,30, ... 53,54,4,56,57,69,70,74,
            12,73,74,75,76,7,78,79.113,114,0,
            116,117 ... 172, 173, 5; 175, 176, ... 189,190
            3/189, 193.2/2/2/3/214,215,716,217,218
            191,220. 253,254,255]
      => t = (S[i] + j[]] 4,26
            = (5[4] +5 (10]4.256
            -1B+55% 286
            = 73
      => u = s [H]
            = S [73]
            = 73 =7 Buer 73 = 1601001
       => c = 4 0 p [ldx]
             = 4 0 P [3]
             = 4 0 "0" >> biner "0" = 116000
             = 1001001
                110000
                1111001
              C = "4" deducal = 121
```