```
* Algorithma: Key, Scheduling Algorithm (KSA)
     Kunei: "sapural". Cen (k): 8
     Array s: [0.1,2.3.4.5.6.7.8...... loo.lol.loz.los, ..... 253, 254.255]
* Iterasi pertama - 1 = 0
     J = 0
  → j = (j + s[1] + x + + (i mod (m (k))) mod 256
       - (0+0+ k [0%8]) % 256
       = (K[0]) % ZSE
        = ("5") % 256 => vilai dezinal dari "5" = 115
        = 115 % 256
      J = 115
  sway (s(i], stj])
  swap (5(0),5[15])
  Array 5 = [ 115. 1.2.3.4,5.6,7, --... 16,111, 112,113, 119.0,116,117, ..... 189.200, 201.202.203.204.205.....
              750, 251, 252, 253, 254, 255]
 * Iterasi kedua - i = 1
   =1 = 115
   = j=(j+s[i]+ k[i% (m(k)))% 256
       = (115 + 5 [i] + 1 [i % 8]) % 256
      = (115 + 1 + k [f]) % 256
       = (116 + "a") % 256 => desired dari "a" = 97
      = (116 + 97) % 256
      = 213 % 256
    1 = 213
  swap (s [i], s [j])
  swag (5[1], 5[213])
  Array S = [115, 213, 2,3,4,5,6,7,...,112,113,14,0,116,...,20,211,212,1,214,...,250,251,253,
             259, 255]
```

```
* Iterasi keligo - 1:2
   J = 213
 =1 = (j + s[i] + k[i % (en (k)]) % 256
     = [213 + 5[2] + k[2% 8] % 256
     = (213+2+ K (2]) % 256
     = (215 + "1") % 256 => distinged dari "1"= 112
    = (215 +112) % 256
     = 1327 % 256
   j = 71
  swap ( S [i] , S [j])
  Swag (5 [2], 5 [71])
  Array 3: [115.213.71, 3.4.5.6.7, ...., 69, 70, 2,72, ...., 112,113, 114,0,116, ..... 210, 211, 212, 1,
             214. ..... 250. 251, 252, 253, 254, 255]
* Iterasi beengat - 1:3
     1 = 71
   = ] = (j + 5 [i] + K [i % (em (k))) % 256
       = (71+5[3]+ k[3 % 8]) % 256
       = (71+3+K[3]) % 256
       = (79 + 117) % 256
       = (91 % 256
     j : 191
    scrap (S [i] , S [j])
    swar (5[3], 5[191])
   Array 5 = [115, 213, 71, 191, 4.5, 6, 7. --- 69, 70, 2. fz. ---, 112, 113, 114, 0, 116, ..., 189, 190, 3,
             192, ...., 210, 211, 212, 1, 214, ...., 250, 251, 252, 253, 259, 255]
```

```
16 rosi kelinua - i = 9
    1 2 191
 ⇒ j z (j + 5 [i] + k [i % (on (k)]) % 256
      : (191 + S[4] + K (4 % 8) % 256
      = (191+4+ K(1)) %,256
      = (195 + "t") % 256 $> desired "t" = 116
      2 (195 + 116) % 256
      = 311 % 256
   j = 55
  swap (s[i], s[j])
  Surap (5[4].5[55])
  Array S = 1 115, 213, 71, 191,55, 5.6,7.8, ..., 53, 59, 9.56,57, .... 69, 70, 2.72, 13, ...., 250.
              251. 252. 253. 254. 255]
* Iterosi keenam - 1 = 5
    1 = 55
   =1 = (1 +5 (i) + Kli % (en (K))) % 256
      = (55 + 5 [5] + 10 [5 % 8]% 256
      = (55 + 5 + k [5]) % 256
      = (60 + "r") 0/0 256 $\approx$ desired "t" = 1/4
      = (60 + 114)% 256
      2 179 do 256
      = 174
  swap (stil, stil)
  swap (5[5], 5 [55])
  Acray S = (115, 213,71, 191,55, 174, 6,7,8, ..., 53,54,4,56,57, ..., 63,70, 2,72,73, ..., 113,
              119.0, 116, 117. ...., 172, 173,5, 175, 176, ...., 189, 130, 3, 192, 193, ...., 211, 212.
              1. 219. 215. .... 250, 251, 252, 253, 254, 255]
```

```
* Iterasi ketujuh - i = 6
    1: 179
 37 ] : (j + 5 [i] + k [i % (m (k))) % 256
      = (179+576]+ k[6 % 8]) % 256
      = (174 +6 + k[6]) % 256
      = (180 + "a") % 256 \approx desired "a" = 97
      - [180+ 97] % 256
      = 277 % 256
    1: 21
 swag (5[i], 5[i])
 suray (5[6], 5 [171])
 Array 5 = [15, 213, 71, 191, 55, 174, 21, 7,8, ...., 19, 20, 6, 22, 23, ...., 53, 54.4. 56, 57, ...., 69. 70.
            2.73. ..... 113.114.0.116.117. ..... 172.173.5.175.176, ..... 189.190.3.192.193, .....
            211. 212. 1.214. 215. . . . . . 250. 251. 252. 253. 254. 255]
 * terosi kedelapan - i: 7
   1: 21
 7 1 = ( j + 5 (i) + k (i % (u (k))) % 256
     = (21.+5[7] + £ [7 % 8] % 256
     = (21+7+ k[7]) % 256 /
     = (28 + "1") % 256 27 desired "1" = 49
     = ( 78 + 49) % 256
     = 17 % 256
   1:77
 swap (s (i], s (i])
 sway (5 (1), 5 [71])
 Array S = [16, 213, 71, 191, 55, 21, 71, 8, ...., 19, 20, 6, 22, 23, ..... 53, 54, 4, 56, 57, ...., 69, 70, 2,
             72, 73, 74, 75, 76, 7, 78, ...., 113, 114, 0, 116, 117, ...., 172, 173, 5, 175, 176, ...., 189,
             190, 5. 192, 193, ...., 711, 212, 1, 214, 215, ...., 250, 251, 252, 253, 254, 255]
```

```
: E1 E1200L0
           NIAL
           Kelos
                      : Genax
           Mota kuliah: Kriptografi
  Pscudo Random Generation Algorithm (PRGA)
  Plaintels = 20089
- Iterosi pertama
   1=0 j=0
   For idx = 0 to bugth (1) -1 do
          = 0 to on (s) -1 do
          = 0 to a do
         i = (i + 1) mod 256
         i = (0+1) mod 256
         i = 1
         j = (j + s [i]) mod 256
                                Muiloi i diambil dari Array subelumya
         j = (0+ 213) mod 256
                                   di KSA
         j = 213 mod 256
         j : 213
     swap = s[i], s[j] = s[i], s[ris]
        f = (5 (1), + 5 (1)) . mod 256
        u = 5 [t]
         7 = (18+213) mod 256
           = 219 mod 256
         t = 219
         >= u $ 5 [219]
         C : U & P[0]
           = 219 82
           3 Binary $ 219 => 11 01 0110
                         2 = 00 11 00 10 0 XOR
                               11100100 - 228 => a
```

Nama: : 1 an herlambang

```
- Iterasi ke-2
  i=1, j= 213
    For index = 0 to a
   i = (i+1) mod 256
   i = (1+1) mod 256
    = 2 mod 256
    = 2
   ] = (s[i], s[j]) mod 256
     = (213 +5[2]) mod 256
     = (213 + 71) mod 256
     = 289 mod 756
   J = 28
  · t = (5[i], 5[j]) : (5[z], 5[z8])
     = (5[2], + 5 [28]) mod 256
      = (11 + 28) mod 256
      = 99
    C= u & P[i]
      z 99 0 0
      = 011000 U
        00110000 0
        01016011 - chr => s (kapital)
 - Iterasi ke-3
    1=2 j=28
    For idx = 0 to 40 do
    i = (2+1) mod 256
    1 = 3 mod 256
    1:3
    j: (j+s[i]) mod 256
      = (28 + 191) mod 256
      = 219 mod 256
    J = 219
 swap = 5 [i], 5[i] = 5[3], 5[215]
     t = 8 0 (5[3] + 5[219]) mod 256
       = (219 + 191) mod 256
       = 410 mad 256
        = 159
```

```
Swap: 5[i], 5[i]: 5[i]: 5[i]. 5[i]2]

1: (192 + 174) mod 26256

: (366) mod 256

1: 110

1: 5[110]

1: 5[110]

1: 110

2: 110 $P[4] => = 110 $P[4]

2: 110 $P[4] => = 110 $P[4]

00110100 $P[4] => = (kapital)
```