```
Nama
          : Muh. Kahmert Dhyan f.
Nim
         : E1E120084
Kelas
       : Genap
Mata Kuliah: Krip bogvafi
KSA ( key Scheduling Algorithm)
  iuisilisasi: So = S, --- Sess = 255
  Key = Sapuforal -> length key = 8
 Iterasi ke - 0
  i = 0 j = 0 S = 115
  j = (j + S[i] + k[i mod len (k)]) mod 286
 = (0 + 0 + k [0 mod 0]) mod 206
   = (0 + k[0]) mod 286
   = (0 + US) H5 mad 206
         Us wood 206
  5 =
       115
 Swap = S[i], S[i] = S[o], S[us]
  S = 115, 2, 3, Li, 5, 6, 7, ..., 114, 0, 116, -- , 258
 Iterasi ke-21
  i=01 j=115 a=a=97
  j = (j + S[i] + K[i mod len (+)]) mod 206
    = (115+1+ K[1 mod 8]) hed 256
   = (116 + K[1]) mad 206
   = (116 + 97) mad 256
        213 mod 256
        213
 Swap = S[i] S[j] = S[1] S[212]
  S'= 115, 213, 3, 4, 5, ---, 114, 0, 116, ---, 212, 1, 214, --- 255
 Iterasi ke-2
 1=02 j=#5213 as P=112
  j = (j + S[i] + k[i mod len (k)]) mod 286
     1(213 + 2 + k[2 mod 8]) mod 256
  = (215 + k[2]) mod 256
  = (215 + 112) mod 256
                                => j= 71
     (327 mod 256)
```

```
Swap = S[i], S[j] = S[2], S[71]
     S = 115,213,71,3,4,5, -- ,70,2,72, -- 114,0,16, -- , 20212
          1, 214, --- 255
  Iterazi Ke-3
   i=3 j=71 u=117
   j = (j + S[i] + k[i mod len(k)]) mod 256
    = (71+3+ k[3 mod 8]) mod 256
    = (74 + k[3]) mad 286
    = (74+ 117) mod 206
    = 191 mod 256
   J = 191
  Swap = S[i], S[j] = S[3], S[191]
   S = (15, 213, 71, 191, 1 4, 5, ..., 70, 2, 73, ..., 114, 0, 116, ..., 190, 3,
       192, -- , 212, 1, 214, -- , 285
   itcrasi Re-4
   i=4 j=191 =t=16
   j=(j+S[i]+k[i mod (en (k)] mad 256
    = (191+4+ K[4 mod 8]) mod 206
     = ( 195 + K[4]) mod 206
     = ( 195 + 116) mod 206
     = 311 mad 256
  Swap = S[i], S[j] = S[4], S[55]
  S=115,213,71,191,85,5,--,212,1,214,---,255
 Herazi ke - 5
  i = 5 j = 05 r = 114
  j= (j + S[i] + K[i mod len (k)]) mod 206
  = (55+5+k[s mod 8]) mod 256
   = (60 f k[s]) mad 256
   = (60 + 114) mod 206
     174 wod 256
j = 174
Swap = S[i], S[j] = S[s], S[174]

S = 115,213,71,191,55,174,6,...,54,4,56,...,70,2,72,....

114,0,16,...,190,3,192,...,212,1,214,...253
```

(60

```
(fevasi Re-6
 i = 6 j = 174 a = 97
 j = (j + S[i] + k [i mord (en (k)]) mod 20%
    = (174 + 6 + k[6 mod 8]) mod 286
    = C(100 + K[C]) mod 2$6
    - (180 + 174) mod 286 (180 + 97) med 206
  - 277 wod 277 wod 256
  Swap - S[i], S[j] = S[6], S[21]
   S = 115,213,71,191,55,174,21,7,---,20,6,22,...,54,4,56,

---,70,2,72,---,114,0,116,---,173,5,175,...,197,3,192,
         --, 212, 1, 214, --, 205
Herasi ke-7
  i = 7 j = 21 1 = 49
j = (j + S[i] + k [i mod len (k)] mod 256
     = (21 + 7 + K[7 mod 8]) med 206
     = (28 + K[7]) mod 256
     = (20+49) mod 256
= 77 mod 256
 Swap = S[i], S[i], = S[7], S[77]
   S = 115, 213, 71, 191, 50, 174, 21, 77, 8, -... 20, 6, 22, ... 54, 4, 76, -..., 70, 2, 72, -..., 76, 7, 78, -..., 114, 0, 116, -..., 173, 5, 175, -..., 180, 3, 192, -..., 212, 1, 214, ---, 283.
```

```
: Oarch Rahment Dhyan F.
Nama
Nim
            : E1E120084
Keles : Eener
Marta kalish : Korpbogverfi
Kelas
  Pseudo Randon genaration Algorithm (PRGA)
   Plainteks = 20084
- Herasi perbama
   1 = 0 j =0
     For ide = 0 to length (P) -1 do
             = 0 to len (5)-1 do
              = 0 fo 4 do
        i = (i+1) mod 256
        i = (0+1) mod 206
         j = (j + S[i] wod 256
         j = (0 + 213) mod 256 // vilai i dambil davi Avray
                                      sobelumya di KSA
         j = 213 marel 216
         j = 213
         Swap = S[i], S[j] = S[1], S[213]

t = (S[i] + S[j]) mod 256

4 = S[t]
            = (1 + 213) mod 256
            = 214 mod 256
           t = 214
           > = 5 [214]
            c = U & P[0]
              = 214 02
              => Binary => 214 >> 11010110
                              2 > 00110010 # XOR
                                    11100100 -> 228 => ä
- iterry ke-2
                         () i = (1+1) mod 256
   i = 1, j = 213
                           = 2 mord 286
    for index = 0 to 4
    i = (i+1) mod 206.
```

```
j=(S[i], S[j]) mod 206
 Sep = (213 + S[2]) mod 256
   = (213 + 71) mad 256
    = 284 med 286
  j = 284
  t = ((S[i], S[j]) = (S[2], S[20])
  t = (S[2] + S[2]) mad 286
    = (71+20) mod 256
    = ( 99 ) mad 206
    = U & P[1]
       99 0 0 00
    ≥ 01100011 DE 5 Beauti
       00110000
       01010011 -> Chr => S (kapital)
- iterasi ke-3
  \hat{1} = 2 \hat{1} = 20
  For idx = 0 to 4 do
    i = (2+1) mad 256
    i = 3 mod 206
    1 = 3
    J = (J + S[i]) mad 256
      = (20+191) mend 206
      = 1219 mod 256
    J = 219 218 62.00 (1891 + 11)
  Swap = S[i], S[i] = S[3] S[215]
   6 = (S[3] + S[219]) and 256
     = (219 + 191) mod 256
     = 410 mod 256
     = 154
   U = S[1547]
   C = M & P (2)
     = 154 0
     = 10011010
                   nec = 170 aseil = 0d
       00110000
        10101010
```

```
-iteraji ke-4
  i = 3 j = 219
   Roo ide = 0 to 4 do
    i = 3(3+1) mod 286
     = (j + S[i]) mod 206
     = (219 + 55) mod 286
     = 274 mod 256
    Swap = S[i], S[j] = S[4], S[W]
        = (S[4] + S[18] mad 286
         = (18 + 05) mod 206
      = 73
U = 5 [73]() 2 < 50) =
       C = U 0 P[3]
      = 73 0 0
      Bicary = 01001001
           00111000 & Dec = 113 ascii = 9
            01110001
- Iterasi Ke-5
   i = 4 j = 18
    Por idx = 0 to $4 do
i = (4+1) mod 206
       J = (18 + 174) mod 256
       = 192 med 2067 j = 192
Luap = S[i], S[j] = S[45], S[192]
          t = (192 + 174) mod 256
          = (366) mod 286
          t = 110
          4 = S[40]
          C = U & P[4] =>=10 # #4
                            = 01101110
                            00110100 Dec = 90
01011010 Ascii = Z (kupétal)
```