

[EXERCISE - PERTEMUAN #2]

SHIFT CIPHER || CAESAR CIPHER

H A S K E L L
7 0 18 10 4 11 11

K = 20

$E(x) = (x+K) \mod 26$
[H] = (7+20) mod 26 = 1 -> [B]
[A] = (0+20) mod 26 = 20 -> [U]
[S] = (18+20) mod 26 = 12 -> [M]
[K] = (10+20) mod 26 = 4 -> [E]
[E] = (4+20) mod 26 = 24 -> [Y]
[L] = (11+20) mod 26 = 5 -> [F]

E(x) = B U M E Y F

$D(x) = (x-K) \mod 26$
[B] = (1-20) mod 26 = -19 mod 26 = 7 -> [H]
[U] = (20-20) mod 26 = 0 mod 26 = 0 -> [A]
[M] = (12-20) mod 26 = -8 mod 26 = 18 -> [S]
[E] = (4-20) mod 26 = -16 mod 26 = 10 -> [K]
[Y] = (25-20) mod 26 = 5 mod 26 = 5 -> [E]
[F] = (5-20) mod 26 = -15 mod 26 = 11 -> [L]

D(x) = H A S K E L L

E T U R F
4 19 20 17 5

K = 12

$D(x) = (x-K) \mod 26$
[E] = (4-12) mod 26 = -8 mod 26 = 18 -> [S]
[T] = (19-12) mod 26 = 7 mod 26 = 7 -> [H]
[U] = (20-12) mod 26 = 8 mod 26 = 8 -> [I]
[R] = (17-12) mod 26 = 5 mod 26 = 5 -> [F]
[F] = (5-12) mod 26 = -7 mod 26 = 19 -> [T]

D(x) = S H I F T

ROT 13

c = P
e = R
n = A
x = K
g = T
v = I
x = K
h = U
z = M

x = K
e = R
v = I
c = P
g = T
b = O
t = G
e = R
n = A
s = F
v = I