**PRAKTIKUM KRIPTOGRAFI**

**Exercise 2**

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**PROGRAM STUDI S-1 TEKNIK INFORMATIKA**

**FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM**

**UNIVERSITAS PADJADJARAN**

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1. **Exercise Shift Cipher**
2. Enkripsikan **HASKELL** dengan K = 20

**Jawab** :

E(7) = (7 + 20) mod 26 = 27 mod 26 = 1 🡪 B

E(0) = (0 + 20) mod 26 = 20 mod 26 = 20 🡪 U

E(18) = (18 + 20) mod 26 = 38 mod 26 = 12 🡪 M

E(10) = (10 + 20) mod 26 = 30 mod 26 = 4 🡪 E

E(4) = (4 + 20) mod 26 = 24 mod 26 = 24 🡪 Y

E(11) = (11 + 20) mod 26 = 31 mod 26 = 11 🡪 F

E(11) = (11 + 20) mod 26 = 31 mod 26 = 11 🡪 F

Hasil Enkripsi: **BUMEYFF**

1. Ubah **ETURF** menjadi Plaintext dengan K = 12

**Jawab** :

D(4) = (4 – 12) mod 26 = - 8 mod 26 = 18 🡪 S

D(19) = (19 – 12) mod 26 = 7 mod 26 = 7 🡪 H

D(20) = (20 – 12) mod 26 = 8 mod 26 = 8 🡪 I

D(17) = (17 – 12) mod 26 = 5 mod 26 = 5 🡪 F

D(5) = (5 – 12) mod 26 = -7 mod 26 = 19 🡪 T

Hasil Dekripsi: **SHIFT**

1. **Exercise ROT 13**

Dekripsikan **cenxgvxhz xevcgbtensv** dengan ROT 13

**Jawab :**

ROT13(c) = p

ROT13(e) = r

ROT13(n) = a

ROT13(x) = k

ROT13(g) = t

ROT13(v) = i

ROT13(x) = k

ROT13(h) = u

ROT13(z) = m

ROT13(x) = k

ROT13(e) = r

ROT13(v) = i

ROT13(c) = p

ROT13(g) = t

ROT13(b) = o

ROT13(t) = g

ROT13(e) = r

ROT13(n) = a

ROT13(s) = f

ROT13(v) = i

Hasil Dekripsi: **praktikum kriptografi**