**UTS Praktikum Kriptografi**

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**SOAL:**

dekripsikan 10 karakter nama anda dengan hill cipher

k = 11 8

3 7

kemudian enkripsikan menggunakan columnar transposition

1 2 3 4 5 6

3 6 4 1 2 5

**JAWAB**

Ciphertext: patriciajo

pa tr ic ia jo

15 0 | 19 17 | 8 2 | 8 0 | 9 14

k = [11 8 3 7]

k-1 = 1/53 [7 -8 -3 11] mod 26

= [7 18 23 11]

**Dekripsi Hill Cipher:**

[15 0] [7 18 23 11] = [105 270] mod 26 = [1 10]

[19 17] [7 18 23 11] = [524 529] mod 26 = [4 9]

[8 2] [7 18 23 11] = [102 166] mod 26 = [24 10]

[8 0] [7 18 23 11] = [56 144] mod 26 = [4 14]

[9 14] [7 18 23 11] = [385 316] mod 26 = [21 4]

Plaintext: bkejykeove

**Enkripsi Columnar Transposition:**

bkejyk eovezz

364125 364125

ekjbky vzeeoz

Ciphertext: ekjbkyvzeeoz