# Kriptografi – Tugas 2

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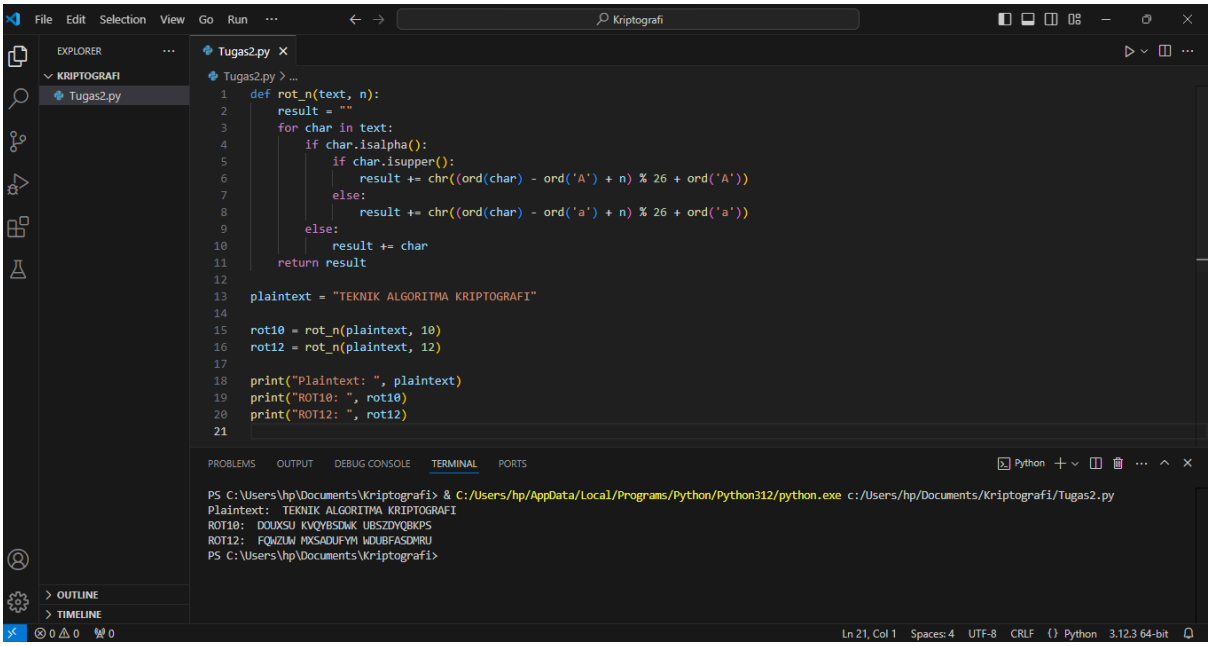
Buatlah kode program dengan Pyhton untuk teknik kriptografi dengan:

1. Subsitusi
2. Blocking
3. Permutasi

Jawab!

1) Subsitusi




Tabel ROT10 dan ROT12

Tabel untuk setiap ROT adalah pergeseran karakter huruf abjad sebanyak 10 atau 12 huruf ke depan.

ROT10:

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J |

ROT12:

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L |

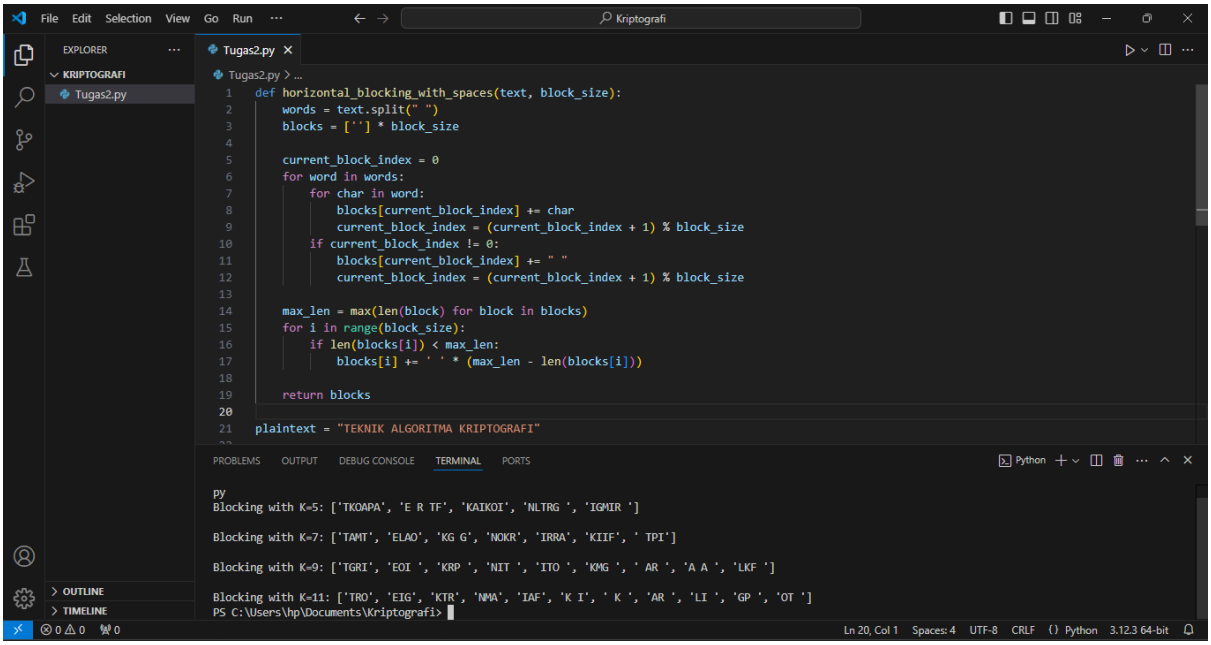
Hasil Chipertext ROT10 dan ROT12:

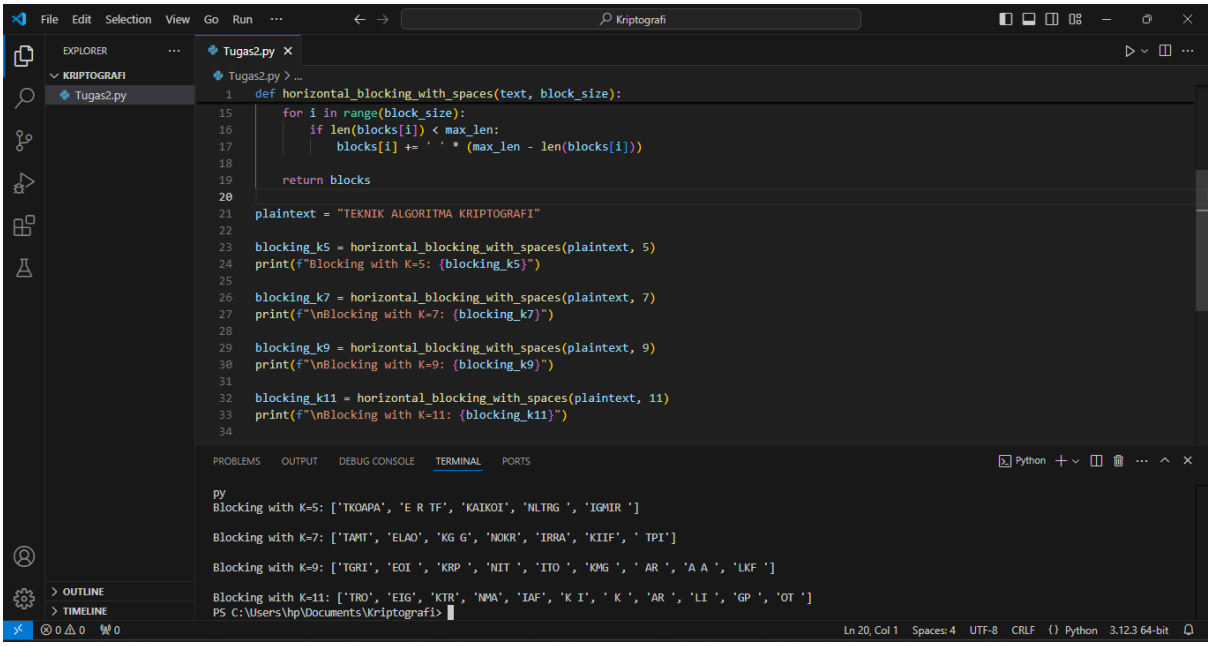
Plaintext: TEKNIK ALGORITMA KRIPTOGRAFI

ROT10: DOUXSU KVQYBSDWK UBSZDYQBKPS

ROT12: FQWZUW MXSADUFYM WDUBFASDMRU

2) Blocking



Tabel Chipertext untuk Blocking K = 5, 7, 9, 11

| 5 | TKOAPA | E R TF | KAIKOI | NLTRG | IGMIR |
|---|---|---|---|---|---|
| 7 | TAMT | ELAO | KG G | NOKR | IRRA | KIIF | TPI |
| 9 | TGRI | EOI | KRP | NIT | ITO | KMG | AR | A A | LKF |
| 11 | TRO | EIG | KTR | NMA | IAF | K I | K | AR | LI | GP | OT |

Hasil Chipertext Blocking K = 5, 7, 9, 11:

Plaintext: TEKNIK ALGORITMA KRIPTOGRAFI

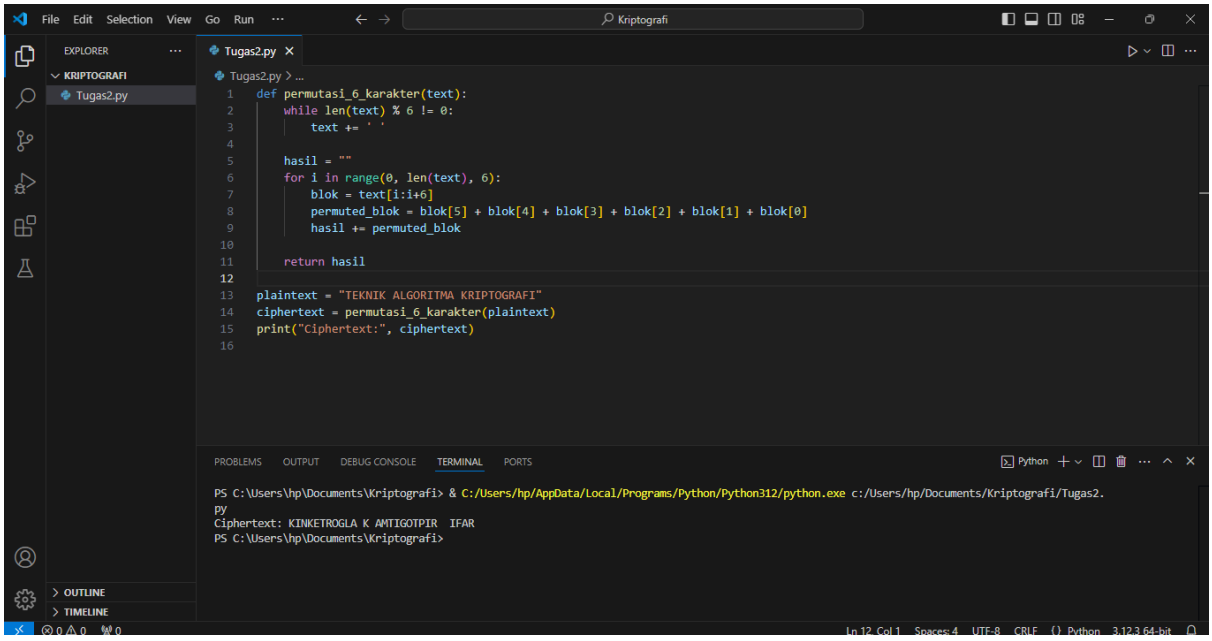
Blocking with K=5: ['TKOAPA', 'E R TF', 'KAIKOI', 'NLTRG ', 'IGMIR ']

Blocking with K=7: ['TAMT', 'ELAO', 'KG G', 'NOKR', 'IRRA', 'KIIF', ' TPI']

Blocking with K=9: ['TGRI', 'EOI ', 'KRP ', 'NIT ', 'ITO ', 'KMG ', ' AR ', 'A A ', 'LKF ']

Blocking with K=11: ['TRO', 'EIG', 'KTR', 'NMA', 'IAF', 'K I', ' K ', 'AR ', 'LI ', 'GP ', 'OT ']

3) Permutasi




Tabel Chipertext Teknik Permutasi

| T | E | K | N | I | K | | | A | L | G | O | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | T | M | A | | K | | R | I | P | T | O | G |
| R | A | F | I | | | | | | | | | |

| K | I | N | K | E | T | | R | O | G | L | A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K | | A | M | T | I | | G | O | T | P | I | R |
| | | I | F | A | R | | | | | | | |

Hasil Chipertext Teknik Permutasi:

Plaintext: TEKNIK ALGORITMA KRIPTOGRAFI

Ciphertext: KINKETROGLA K AMTIGOTPIR IFAR

Link Github: https://github.com/rulrmdn/Tugas_Kriptografi