Kriptografi Praktikum 2



Nama Pembuat:

Muhammad Ilham Syah R(140810220059)

Dikumpulkan Tanggal: 10 Sept 2024

UNIVERSITAS PADJADJARAN

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM PROGRAM

STUDI S-1 TEKNIK INFORMATIKA

2024

Date ENKRIPSIKAN NAMA LENGKAP ANDA MENEGUNAKKAN AFFINE CIPHER 35 MILHAM SYAH R E(x): (ax+b) mod 26 A- 9 B = 59 (9.12+59) mod 26 = 11 M2 12 9.8+59) mod 26 : 1 B (q.11+59) mod 26= (g.7 +59) 5 mod 26 2 18 H : (g. 7) + 59) mad 26: A : 0 7 H mod 26: 11 M: 12 (912+59) 1 mod 26. (9.18+5g) 13 5 = 18 mod 26: 4:24 (q.24+59 15 H (9.0+59) mod 26. A = 0 (9.7 +59) mod 24)= H . 7 mod 26. (9.17 +59) R: 17 M. ILHAM SYAM. R = L. BCSHL NPHS. F KENKO 36 Lines, 6 mm

| 91 | | No Date |
|---------------------------------------|--|--------------------|
| · · · · · · · · · · · · · · · · · · · | ie ROT 13 | Date |
| CXAKCI | , , , , | |
| A B C 1 1 1 | OFF 6 H J GRSTUV | J L L M F L X W |
| | G T | |
| EXERCISE | The sale of the | |
| = CENXE | V X H Z X E V | 1CEBTENS V |
| | | |
| PRAKT | IKUM KRI | P 10.664 F1 |
| | - LCG THIS IS S | |
| | | |
| | 1 4 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| 44 4 4 4 4 | 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| | | |
| | | |
| | | , |
| | | |
| | | |
| | 1591 015 | |
| 7 | 211202111 | |
| | * | |
| | | |
| | | |
| | All the latest the lat | |
| | | |

| Fyor | Rriptografi CHIC | TUgas T (HIDHER | 2. | No Date |
|---------|---------------------|--------------------|--------------------|-------------|
| 1. Gn | skripcikan | Haskell (| HASKE Jengan K= | CC = BUMEYF |
| | E (X) - | (X+K) | mod 26 0 | |
| A = | 0 6 (A) | . (0+20) | mod 26 = | U |
| S: | (8 € (5) | (18 + 20) | mod 26 - | М. |
| K = | 10 E (K) | - (10 + 20) | mod 26 : | ϵ |
| E : 6 | 4 (() |): (4+20) | mod 26: | * 1 |
| | 11 6 (1) | - (11+20) | mod 26: | * F |
| _ L | 11 6 (1) |) . (11+26 |) mod 26: | 支 F |
| 1. Desi | kripsikan | ETURF X-K)P | dengan K | - 12. |
| E 2 | 4 1) (E |) - (4-12) | mod 26 | - 5 |
| T: | | |) mod ze | |
| 0 ; | 20 D(v |) . (20 - 17 | 1) mod 26 | : <u>T</u> |
| R. | | | 2) mod 26 | |
| F > | 5 h (p |): (5-17 | 1) mod 26 | : T |
| | ETURF : | SHIFT | | |
| | 1000 | | | |

Source Code

```
#include<iostream>
#include<string.h>
using namespace std;
void enkripsi()
{
  string plainteks, cipherteks;
  int i, k;
  char c;
  cout << "Ketikkan pesan: ";
  cin.ignore(); getline(cin, plainteks);
  cout << "Masukkan jumlah pergesaran (0-25):";</pre>
  cin >> k;
  cipherteks = ""; // inisialisasi cipherteks dengan null string
  for(i = 0; i < plainteks.length(); i++){</pre>
    c = plainteks[i];
    if(isalpha(c)){
      c = toupper(c);
      c = c - 65;
      c = (c + k) % 26; // enkripsi, geser sejauh k ke kanan
      c = c + 65;
    }
    cipherteks = cipherteks + c; // sambungkan ke cipherteks
  }
  cout << "Cipherteks: " << cipherteks << endl; // cetak cipherteks
}
```

```
void dekripsi()
  string plainteks, cipherteks;
  int i, k;
  char c;
  cout << "Ketikkan cipherteks: ";</pre>
  cin.ignore(); getline(cin, cipherteks);
  cout << "Masukkan jumlah pergesaran (0-25):";</pre>
  cin >> k;
  plainteks = ""; // inisialisasi plainteks dengan null string
  for(i = 0; i < cipherteks.length(); i++){</pre>
    c = cipherteks[i];
    if(isalpha(c)){
       c = toupper(c);
       c = c - 65;
       if(c - k < 0)
         c = 26 + (c - k);
       else
         c = (c - k) \% 26;
       c = c + 65;
       c = tolower(c); // plainteks dinyatakan sebagai huruf kecil
    }
     plainteks = plainteks + c; // sambungkan ke plainteks
  }
  cout << "Plainteks: " << plainteks << endl; // cetak plainteks
}
main()
{
```

```
int pil; bool stop;
  stop = false;
  while(!stop){
     cout << "Menu:" << endl;</pre>
     cout << "1. Enkripsi" << endl;</pre>
     cout << "2. Dekripsi" << endl;
     cout << "3. Exit" << endl;</pre>
     cout << "Pilih menu: ";</pre>
     cin >> pil;
     switch(pil){
       case 1: enkripsi(); break;
       case 2: dekripsi(); break;
       case 3: stop = true; break;
     }
  }
}
```