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COSC 350.001

#include <iostream>

#include <string>

using namespace std;

bool encrypt(bool a, bool key) {

return a ^ key;

}

bool decrypt(bool a, bool key) {

return a ^ key;

}

int main()

{

bool p\_text[4]= {0,0,0,0};

bool c\_text[4]= {0,0,0,0};

bool s\_key[4] = {0,0,0,0};

//Get plain text

for(int i = 0; i < 4; i++) {

cout << "Enter plain text bit #" << i+1 << " ";

cin >> p\_text[i];

}

cout << endl;

//Get Key

for(int i = 0; i < 4; i++) {

cout << "Enter secret key #" << i+1 << " ";

cin >> s\_key[i];

}

cout << "Encrypting ..." << endl;

for(int j = 0; j < 4; j++) {

c\_text[j] = encrypt(p\_text[j], s\_key[j]);

}

cout << "Plain text : ";

for(int i = 0; i < 4; i++){

cout << p\_text[i] << " ";

}

cout << endl;

cout << "Secert Key : ";

for(int i = 0; i < 4; i++){

cout << s\_key[i] << " ";

}

cout << endl;

cout << "Ciphered Text: ";

for(int i = 0; i < 4; i++){

cout << c\_text[i] << " ";

}

cout << endl;

cout << "Decrypting ..." << endl;

cout << "Ciphered Text: ";

for(int i = 0; i < 4; i++){

cout << c\_text[i] << " ";

}

cout << endl;

cout << "Secert Key : ";

for(int i = 0; i < 4; i++){

cout << s\_key[i] << " ";

}

cout << endl;

cout << "Plain text : ";

for(int j = 0; j < 4; j++) {

cout << decrypt(c\_text[j], s\_key[j]) << " ";

}

cout << endl;

return 0;

}