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**ASS 2: Crypt Analysis**

Cryptanalysis is the decryption and analysis of codes, ciphers, or encrypted text. Cryptanalysis uses mathematical formulas to search for algorithm vulnerabilities and break into cryptography or information security systems.

#include <iostream>

using namespace std;

int main()

{

    string cipher;

    cout << "Enter cipher text STRICTLY IN CAPITAL LETTERS AND WITHOUT SPACES: ";

    cin >> cipher;

    string temps;

    for (int key = 0; key < 26; key++)

    {

        temps = cipher;

        int temp;

        for (int i = 0; i < temps.size(); i++)

        {

            temp = (temps[i] - key - 65) % 26;

            if (temp < 0)

                temp = 26 + temp;

            temps[i] = temp + 97;

        }

        cout << key << " : " << temps << endl;

    }

}

**OUTPUT:**

