## SEM - VII - 2022-23 CNS Lab

## B3 - 2019BTECS00094 - Sweety Shrawan Gupta Assignment 2 Cryptanalysis

**Cryptanalysis** is the study of ciphertext, ciphers and cryptosystems with the aim of understanding how they work and finding and improving techniques for defeating or weakening them.

## Code:

```
#include <bits/stdc++.h>
using namespace std;
int main()
    string s, org;
    getline(cin, s);
    string x;
    for (int i = 0; i < s.length(); i++)
        if (s[i] != ' ')
            x += s[i];
    org = s;
        s = org;
```

```
for (int i = 0; i < s.length(); i++)
{
    int val = s[i] - 'a';
    val = (val - k + 26) % 26;
    char ch = 'a' + val;
    s[i] = ch;
}
    cout << s << endl << endl;
}
return 0;
}</pre>
```

Output:

```
inputf.in
vzhhwbvkudzdqjxswd
outputf.in
Enter Cipher text
Cipher text is: vzhhwbvkudzdqjxswd
Keep Key as: 0
vzhhwbvkudzdqjxswd
Keep Key as: 1
uyggvaujtcycpiwrvc
Keep Key as: 2
txffuztisbxbohvqub
Keep Key as: 3
sweetyshrawangupta
Keep Key as: 4
rvddsxrgqzvzmftosz
Keep Key as: 5
quccrwqfpyuylesnry
Keep Key as: 6
ptbbqvpeoxtxkdrmqx
Keep Key as: 7
osaapuodnwswjcqlpw
Keep Key as: 8
nrzzotncmvrvibpkov
Keep Key as: 9
mqyynsmbluquhaojnu
Keep Key as: 10
lpxxmrlaktptgznimt
Keep Key as: 11
kowwlqkzjsosfymhls
Keep Key as: 12
jnvvkpjyirnrexlgkr
Keep Key as: 13
imuujoixhqmqdwkfjq
```