Program:

```cpp
#include <bits/stdc++.h>
using namespace std;

int main()
{
    vector<int> ans;
    vector<int> barker = {1, 0, 1, 1, 0, 1, 1, 1, 0, 0, 0};
    cout << "Enter Input String: ";
    string n;
    cin >> n;
    vector<int> encrypt;
    for (int i = 0; i < n.size(); i++)
    {
        for (int j = 0; j < 11; j++)
        {
            encrypt.push_back((n[i] - '0') ^ barker[j]);
        }
    }
    cout << "\nEncrypt signal: ";
    for (auto i : encrypt)
        cout << i;

    string op = "";
    int cnt = 0;
    for (int i = 0; i < encrypt.size(); i = i + 11)
    {
        cnt = 0;
        for (int j = 0; j < 11; j++)
        {
            if (encrypt[i + j] ^ barker[j])
                cnt++;
        }
        op += cnt < 4 ? '0' : '1';
    }
    cout << "\n\nDecrpt signal: ";
    cout << op;
}
```

Output:

```
ss.cpp -o dsss } ; if ($?) { .\dsss }
Enter Input String: He's watching from behind

Encrypt signal: 252425252425252524242452535252535252525353-10-9-10-10-9-10-10-10-9-9-96667666667666666676767

Decrpt signal: 1111
PS C:\Users\Idris\Documents\College works\MCC> cd "c:\Users\Idris\Documents\College works\MCC\" ; if ($?) { g++ ds
ss.cpp -o dsss } ; if ($?) { .\dsss }
Enter Input String: Dont look there

Encrypt signal: 212021212021212120202062636262636262626363636362636362636363626262696869696869696968686868

Decrpt signal: 1111
PS C:\Users\Idris\Documents\College works\MCC> cd "c:\Users\Idris\Documents\College works\MCC\" ; if ($?) { g++ ds
ss.cpp -o dsss } ; if ($?) { .\dsss }
Enter Input String: Hello Idris Here

Encrypt signal: 252425252425252524242452535252535252525353536160616160616161606060616061616061616160606062636262632
626262636363

Decrpt signal: 11111
PS C:\Users\Idris\Documents\College works\MCC>
```