Information Security Practical Assignment

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2. Implement caeser cipher substitution operation.

Code:

```
#include <iostream>
using namespace std;

// This function receives text and shift and returns the encrypted text
string encrypt(string text, int s)
{
    string result = "";

    // traverse text
    for (int i = 0; i < text.length(); i++) {

        if (isupper(text[i]))
            result += char(int(text[i] + s - 65) % 26 + 65);
        else
            result += char(int(text[i] + s - 97) % 26 + 97);
    }

    return result;
}

// Driver program to test the above function
int main()
{
    string text;
    cout<<"Input text : ";
    cin >> text;
    int s = 4;
    cout << "Text : " << text;
    cout << "\nShift: " << s;
    cout << "\nCipher: " << encrypt(text, s);
    return 0;
}
```

Output:

```
PS C:\Users\91740\OneDrive\Desktop\Info> cd "c:\Users\91740\OneDrive\Desktop\Info\" ; if ($?) { g++ practical2.cpp -o practical2 } ; if ($?) { .\practical2 }
Input text : ATTACKAGAIN
Text : ATTACKAGAIN
Shift: 4
Cipher: EXXEGOEKEMR
PS C:\Users\91740\OneDrive\Desktop\Info> cd "c:\Users\91740\OneDrive\Desktop\Info\" ; if ($?) { g++ practical2.cpp -o practical2 } ; if ($?) { .\practical2 }
Input text : ATTACKATONCE
Text : ATTACKATONCE
Shift: 4
Cipher: EXXEGOEXSRGI
PS C:\Users\91740\OneDrive\Desktop\Info>
```