
OOP PROJECT

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Under the
guidance of:

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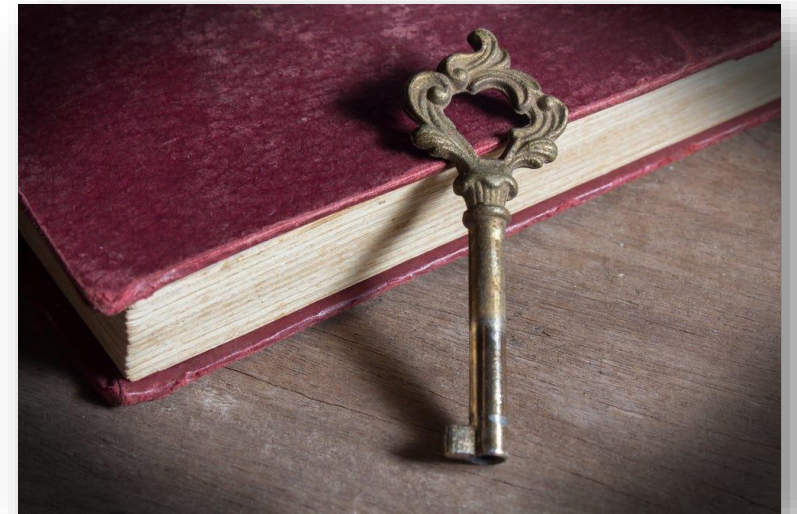
TOPICS TO COVER

1. Secret Diary
2. Encryption
3. A.S.C.1.1.



SECRET DIARY

- WHAT IS A SECRET DIARY?
- WHY DOES ONE MIGHT WANT TO KEEP IT?
- HOW TO MAKE ONE FOR OURSELVES?



ENCRYPT TION

- WHAT IS ENCRYPTION?
- WHY IS IT NEEDED?
- HOW IS IT HELPFUL?



A.S.C. I.I.

- WHAT IS ASCII?
- WHAT IS IT'S SIGNIFICANCE?
- WHERE IS IT USED?



ASCII - Binary Character Table

Letter	ASCII Code	Binary	Letter	ASCII Code	Binary
A	65	01000001	a	97	01100001
B	66	01000010	b	98	01100010
C	67	01000011	c	99	01100011
D	68	01000100	d	100	01100100
E	69	01000101	e	101	01100101
F	70	01000110	f	102	01100110
G	71	01000111	g	103	01100111
H	72	01001000	h	104	01101000
I	73	01001001	i	105	01101001
J	74	01001010	j	106	01101010
K	75	01001011	k	107	01101011
L	76	01001100	l	108	01101100
M	77	01001101	m	109	01101101
N	78	01001110	n	110	01101110
O	79	01001111	o	111	01101111
P	80	01010000	p	112	01110000
Q	81	01010001	q	113	01110001
R	82	01010010	r	114	01110010
S	83	01010011	s	115	01110011
T	84	01010100	t	116	01110100
U	85	01010101	u	117	01110101
V	86	01010110	v	118	01110110
W	87	01010111	w	119	01110111
X	88	01011000	x	120	01111000
Y	89	01011001	y	121	01111001
Z	90	01011010	z	122	01111010

SOURCE

```
1  #include <iostream>
2  #include <fstream>
3  #include <string>
4  using namespace std;
5
6  int main() {
7      fstream myFile;
8
9      string secret_message;
10     cout << "Enter your secret message:\n";
11     getline (cin, secret_message);
12
13     char secret_message_array[secret_message.length()];
14
15     for (int i = 0; i < secret_message.length(); i++) {
16         secret_message_array[i] = secret_message[i];
17     }
18
19     myFile.open("encrypt.txt", ios::out);
20     if (myFile.is_open()) {
21         for (int i = 0; i < secret_message.length(); i++) {
22             myFile << (int)secret_message_array[i];
23         }
24         myFile.close();
25     }
```

E

```
27     system("clear");
28
29     cout << "Your deciphered notes:\n";
30
31     myFile.open("encrypt.txt", ios::in);
32     if (myFile.is_open())
33     {
34         string line;
35         while(getline(myFile, line)){
36             int num = 0;
37             for(int i = 0; i < line.length(); i++){
38                 num = num * 10 + (line[i] - '0');
39                 if(num>=32 && num<=122){
40                     char ch = (char)num;
41                     cout << ch;
42                     num = 0;
43                 }
44             }
45         }
46     }
47     myFile.close();
48
49     return 0;
50 }
```

IMPROVEMENTS THAT CAN BE MADE

- Password system can be added for better security.
- A prompt for user password input whenever the user decides to decipher their notes to read it.
- Adding a GUI.



Thank You!