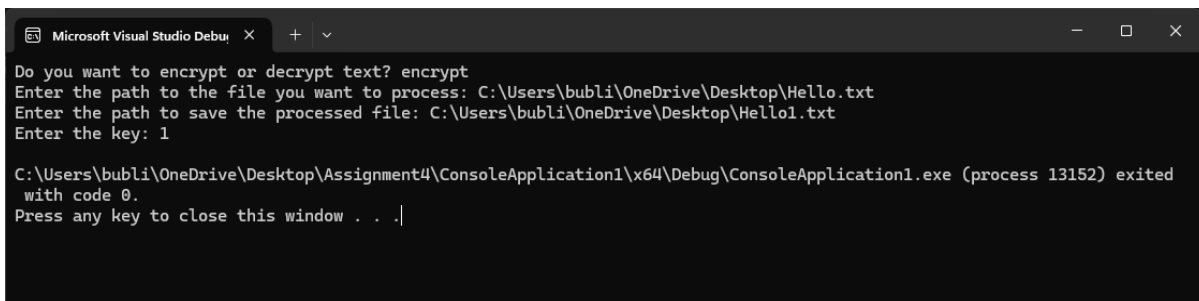
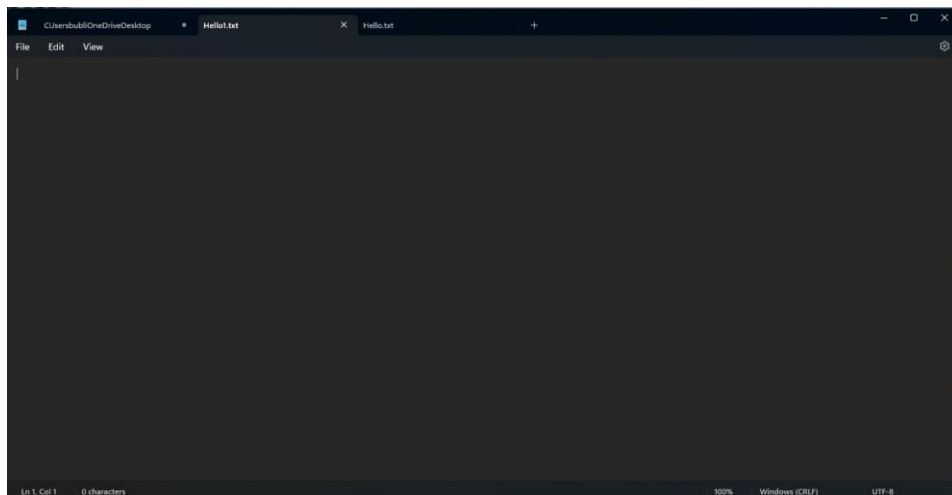
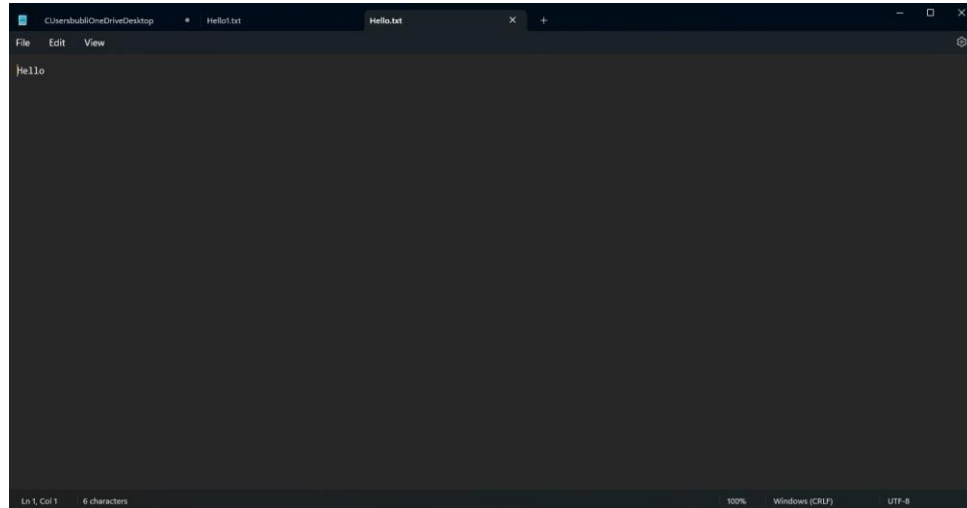
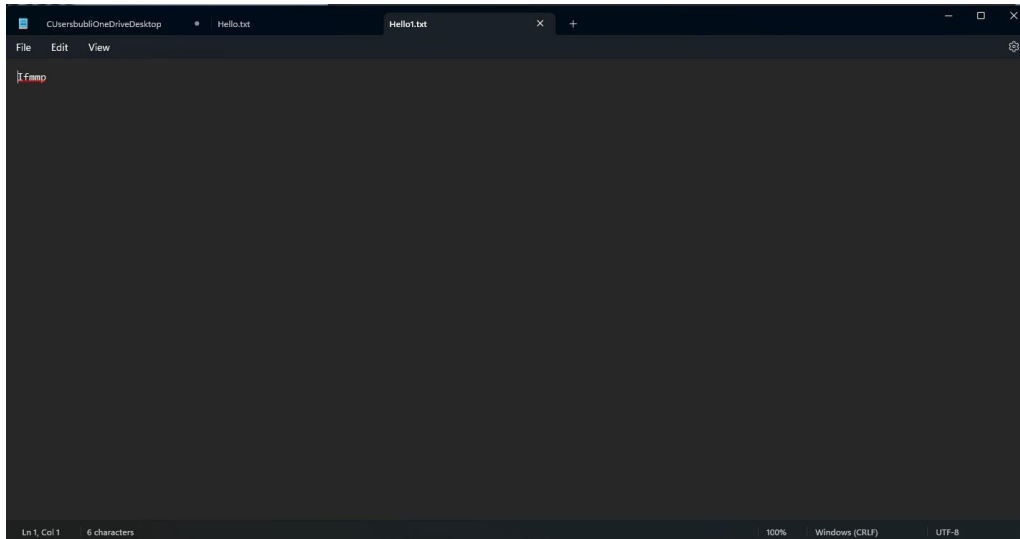


## Test plan

Test plan for this assignment consists of: testing simple encryption (with both files on desktop, and a single word), simple decryption (works the same way), changing the key, encrypting and decrypting a whole sentence. Chunk loading will be tested by the same criteria after the previous version of the app was confirmed to be working.

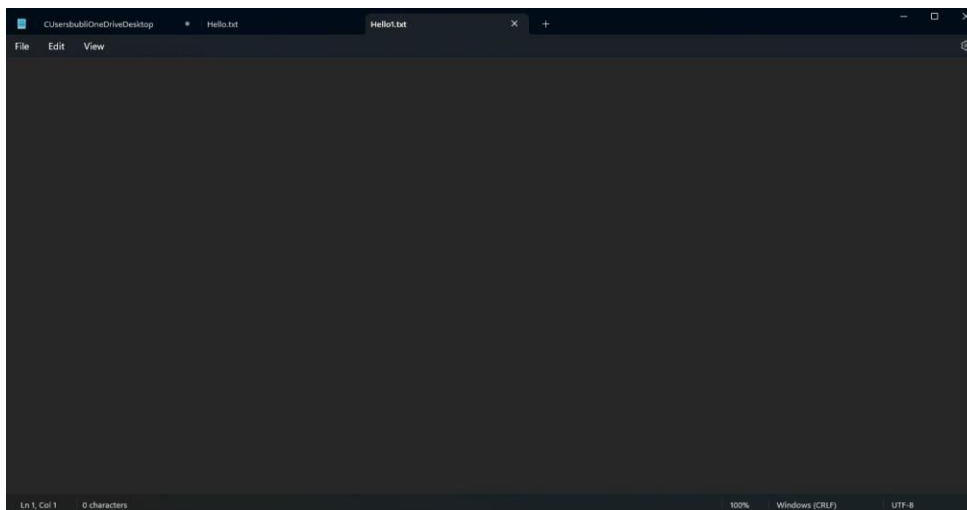
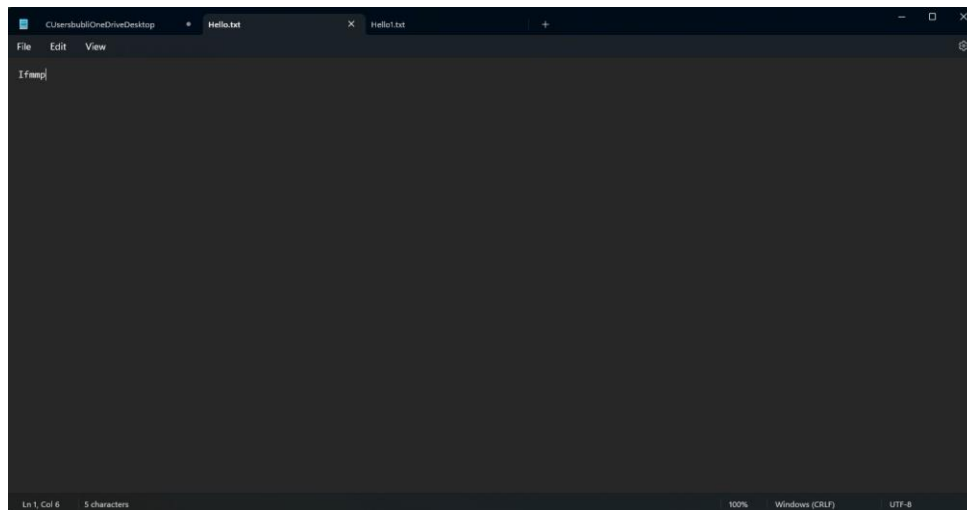
1. Simple encryption with two .txt files, containing word “Hello”



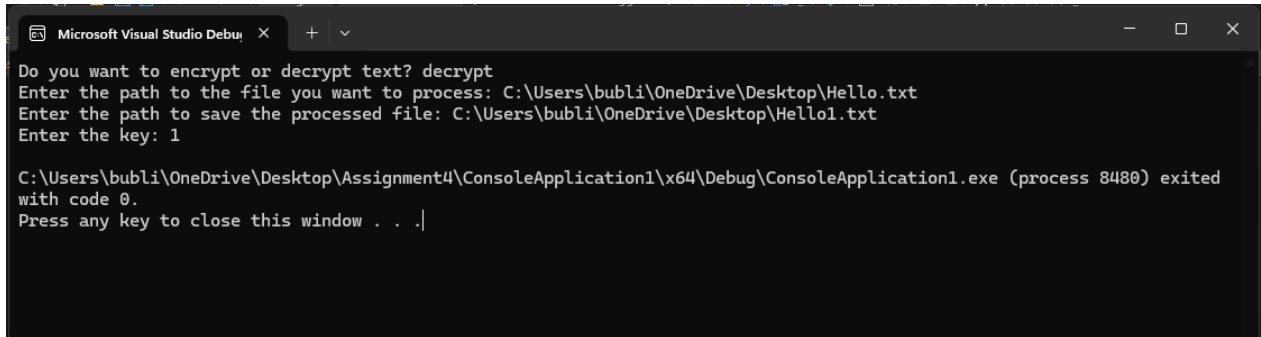


Indeed, encrypting did work.

## 2. Simple decryption



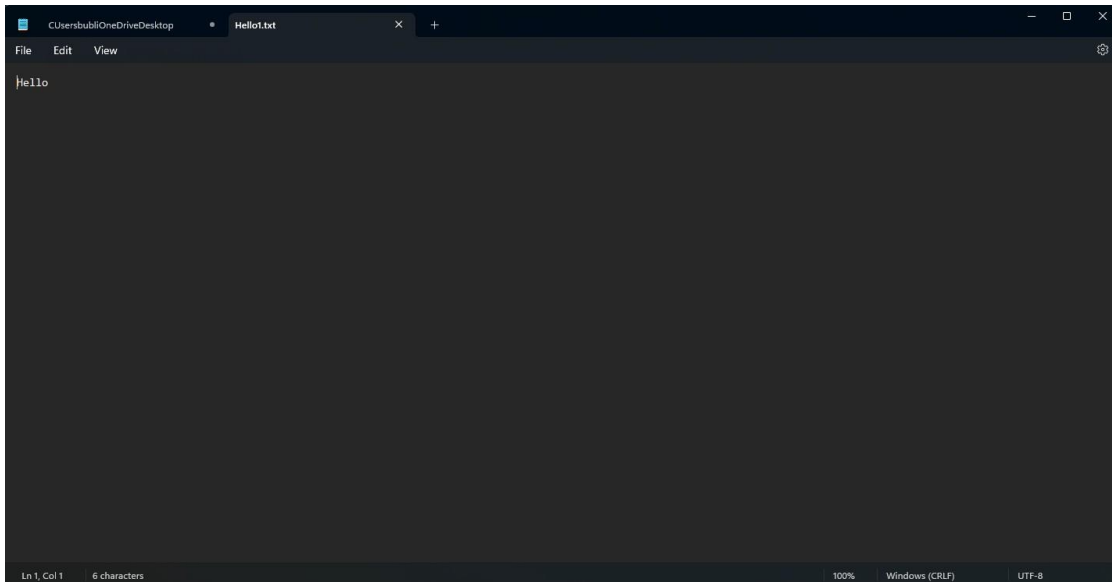
File, which previously contained “Hello”, now contains “lfmmp” (which is indeed an encrypted Hello, with 1 used as a key)



```
Microsoft Visual Studio Debug Console
Do you want to encrypt or decrypt text? decrypt
Enter the path to the file you want to process: C:\Users\bubli\OneDrive\Desktop\Hello.txt
Enter the path to save the processed file: C:\Users\bubli\OneDrive\Desktop\Hello1.txt
Enter the key: 1

C:\Users\bubli\OneDrive\Desktop\Assignment4\ConsoleApplication1\x64\Debug\ConsoleApplication1.exe (process 8480) exited
with code 0.
Press any key to close this window . . .|
```

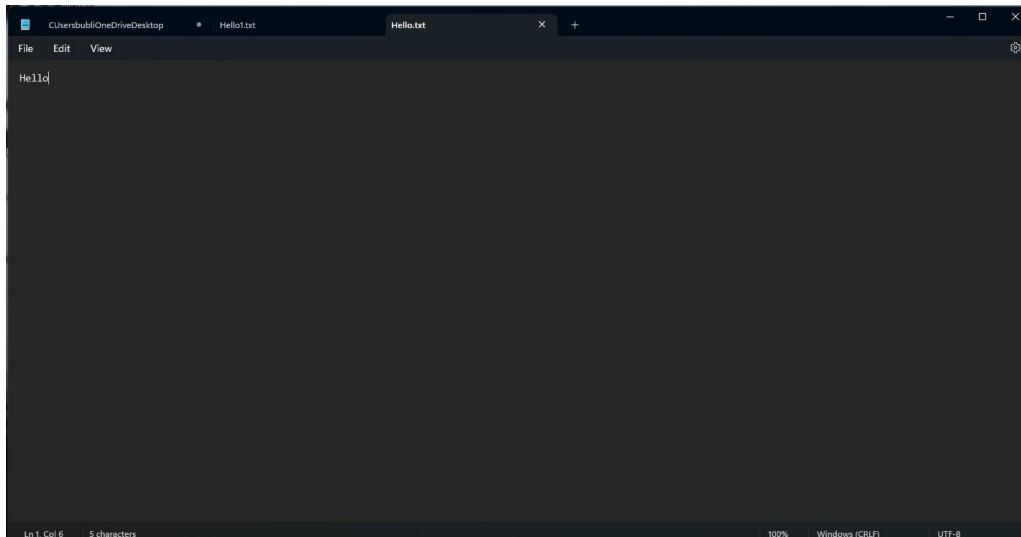
Word “Hello” was decrypted with no errors



```
C:\Users\bubli\OneDrive\Desktop\Hello1.txt
File Edit View
Hello

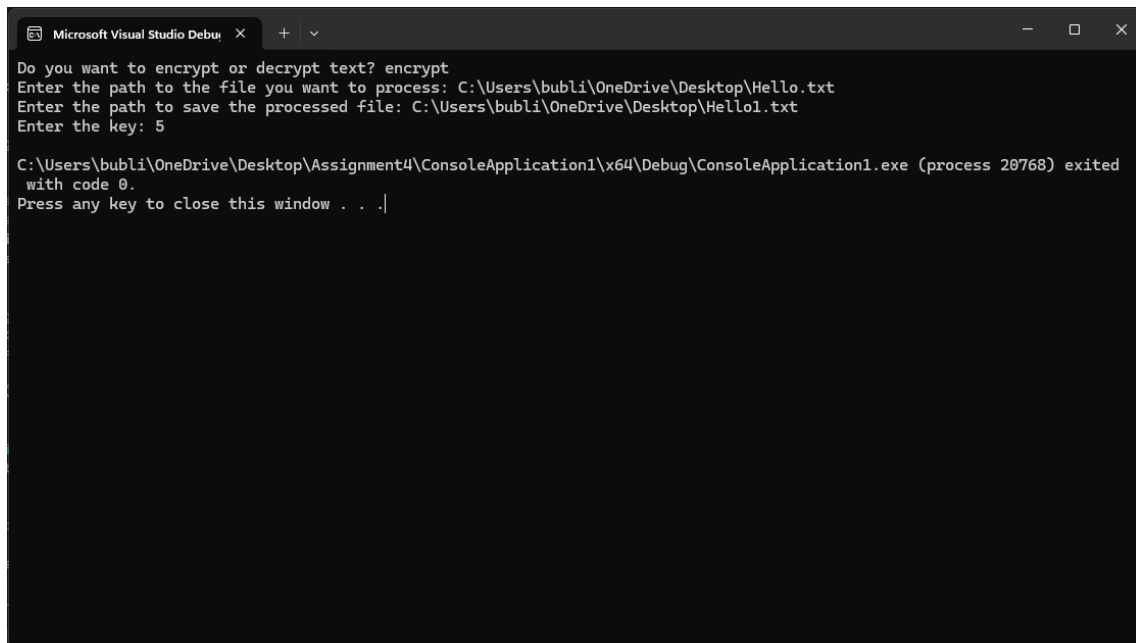
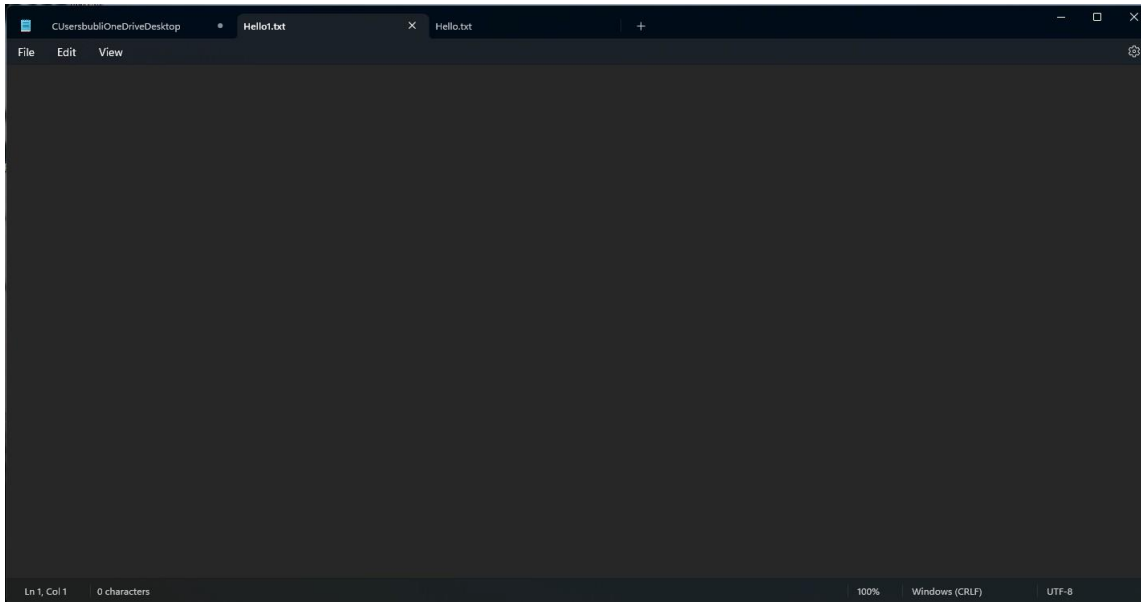
Ln 1, Col 1 6 characters 100% Windows (CRLF) UTF-8
```

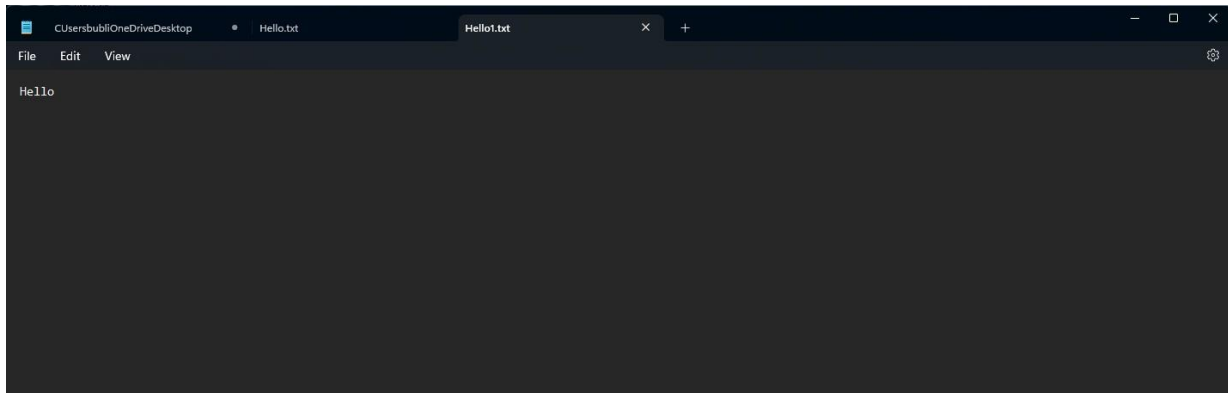
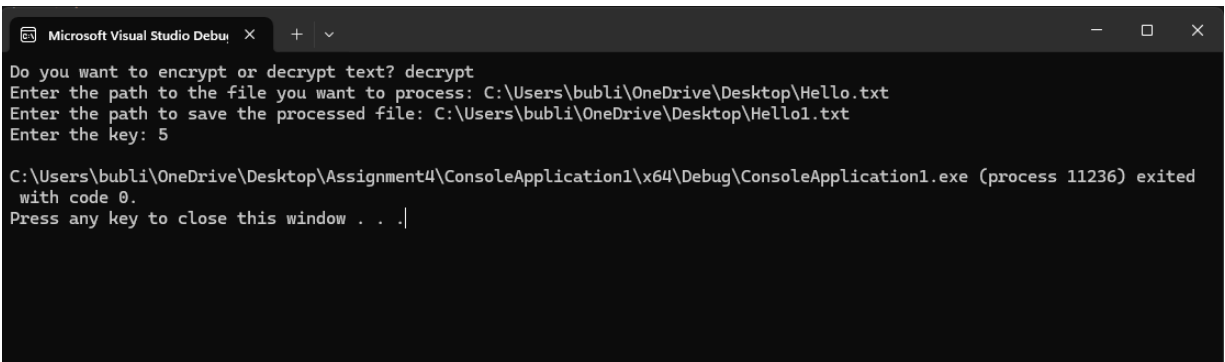
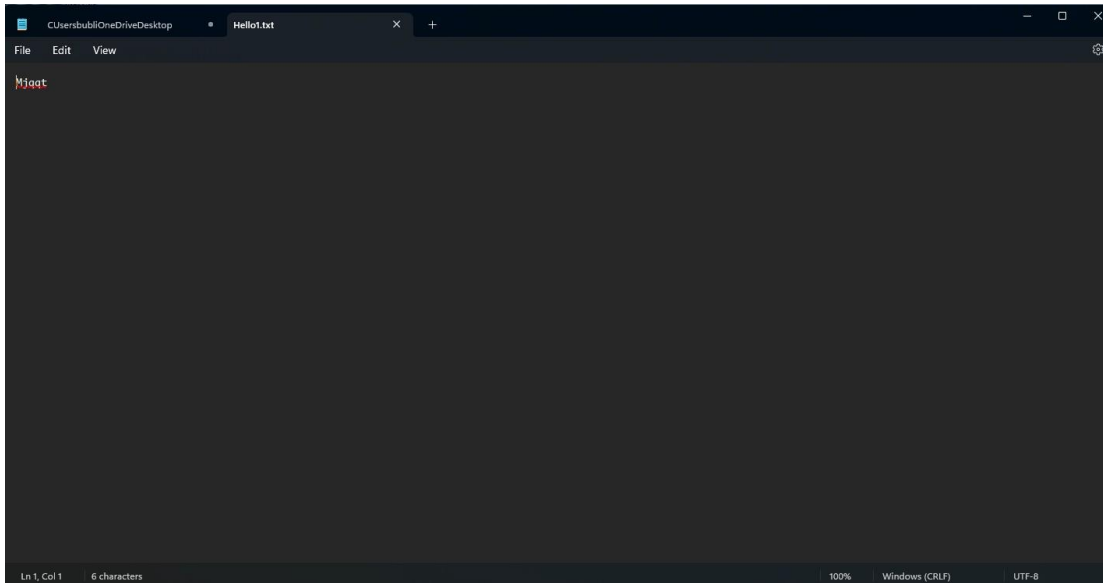
### 3. Encrypting/Decrypting with a different key



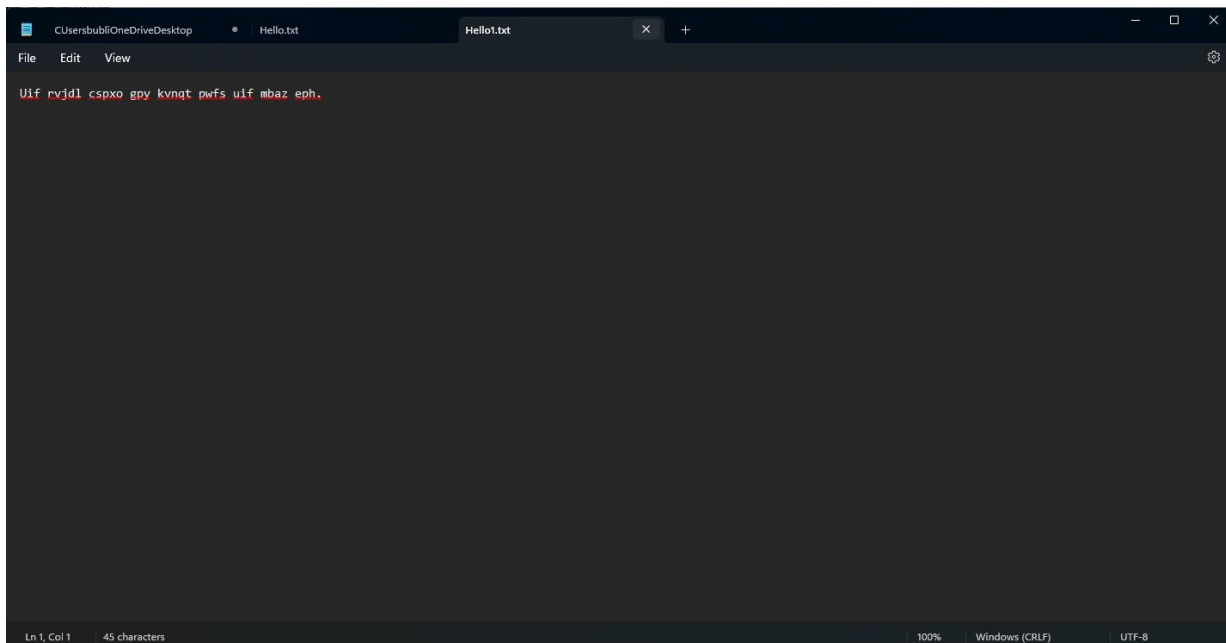
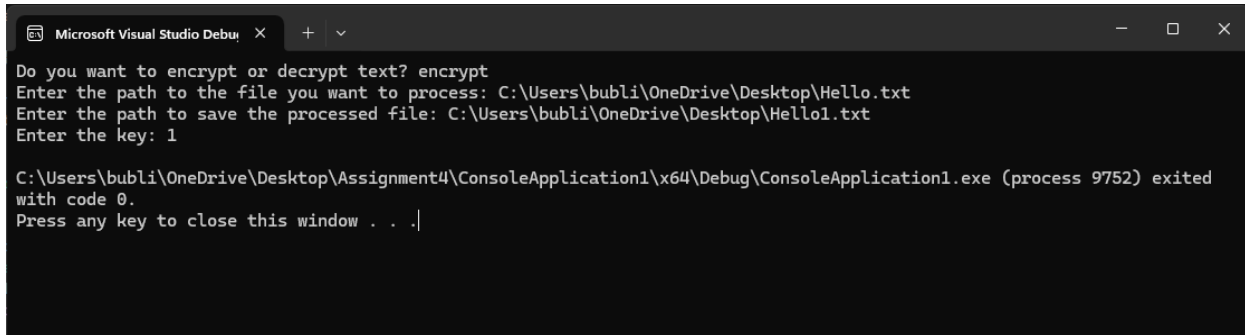
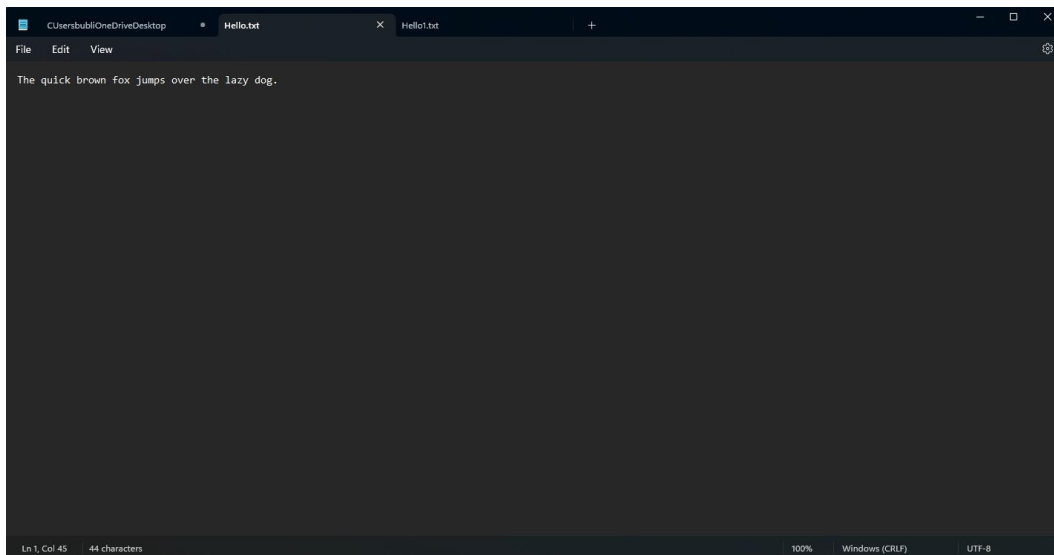
```
C:\Users\bubli\OneDrive\Desktop\Hello1.txt
File Edit View
He11d

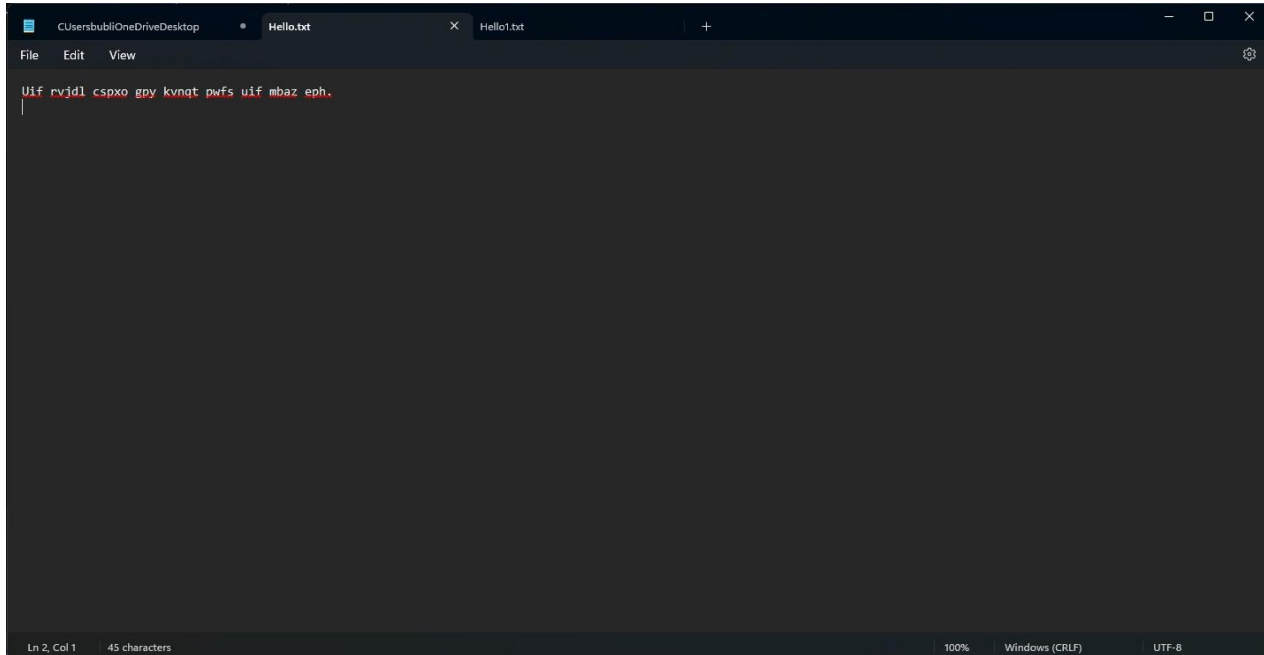
Ln 1, Col 6 5 characters 100% Windows (CRLF) UTF-8
```





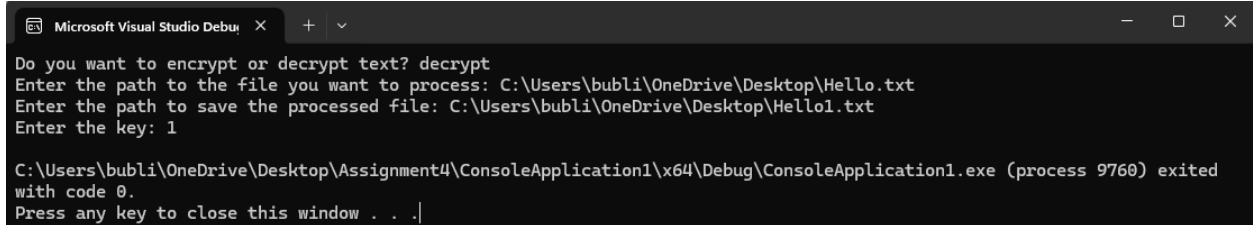
#### 4. Encrypting and decrypting a whole sentence





A screenshot of a text editor window. The title bar shows the file path 'C:\Users\bubli\OneDrive\Desktop' and the file name 'Hello.txt'. The editor has a menu bar with 'File', 'Edit', and 'View'. The text 'Uif rvjdl cspxo gpy kvnqt pwfs uif mbaz eph.' is written on the first line. The status bar at the bottom indicates 'Ln 2, Col 1', '45 characters', '100%', 'Windows (CRLF)', and 'UTF-8'.

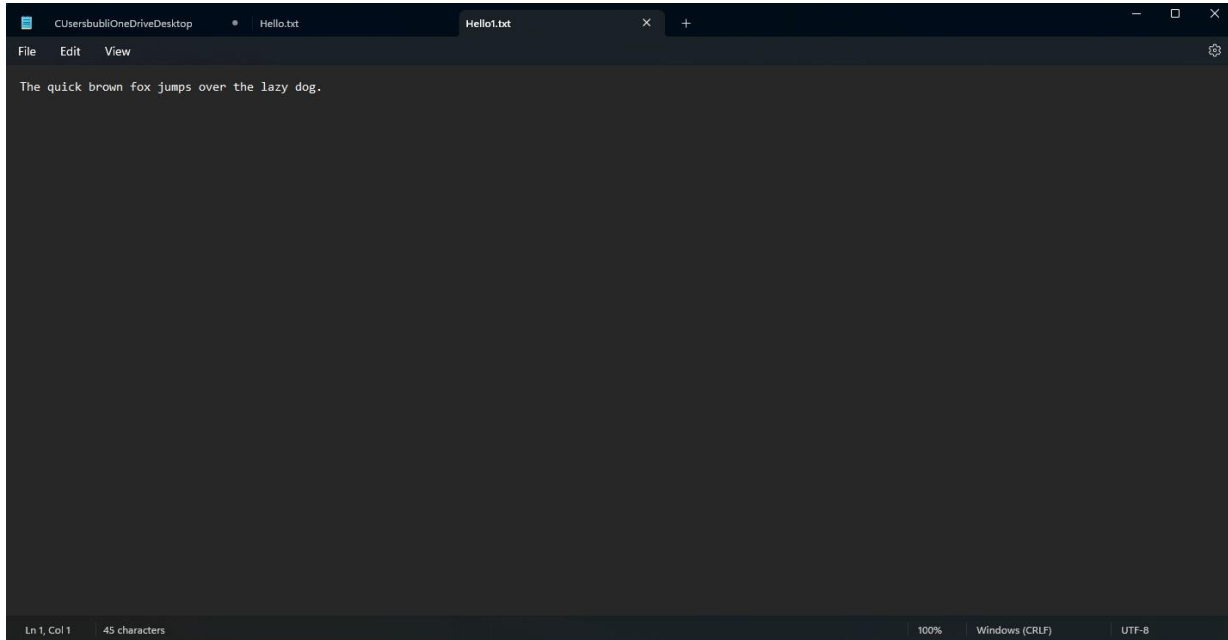
```
Uif rvjdl cspxo gpy kvnqt pwfs uif mbaz eph.
```



A screenshot of a Microsoft Visual Studio Debug Console window. The title bar shows 'Microsoft Visual Studio Debug'. The console output is as follows:

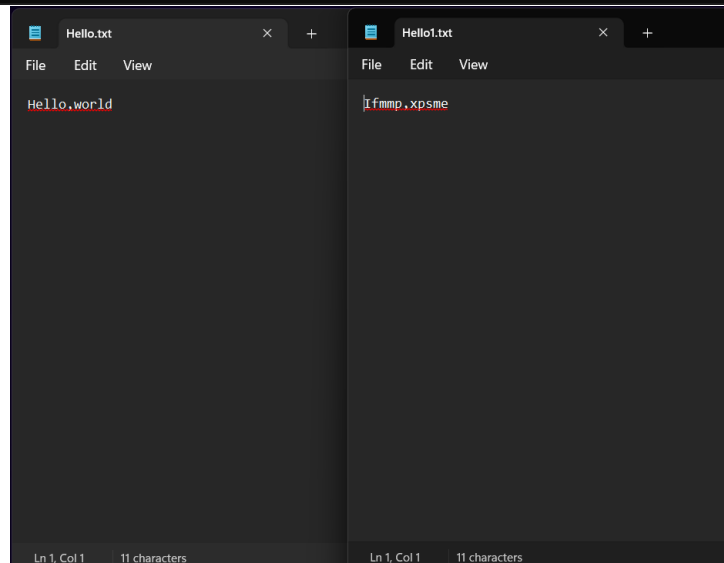
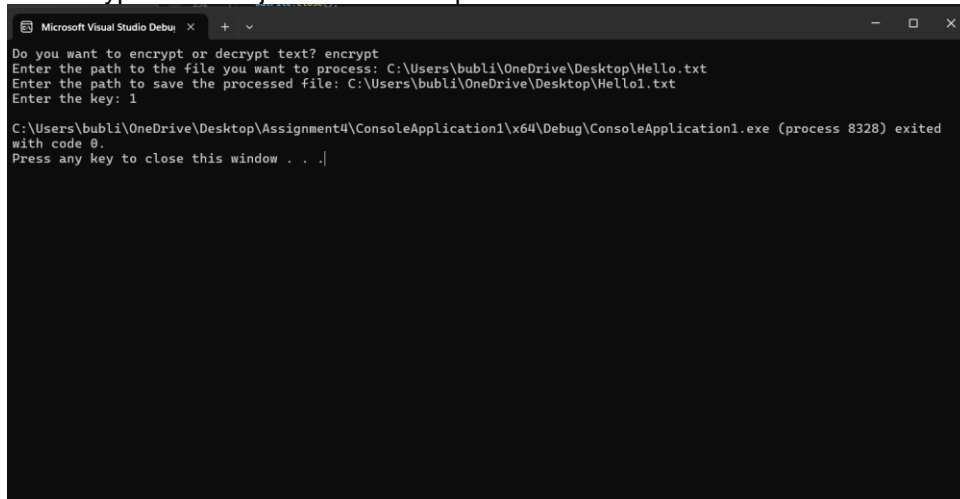
```
Do you want to encrypt or decrypt text? decrypt
Enter the path to the file you want to process: C:\Users\bubli\OneDrive\Desktop\Hello.txt
Enter the path to save the processed file: C:\Users\bubli\OneDrive\Desktop\Hello1.txt
Enter the key: 1

C:\Users\bubli\OneDrive\Desktop\Assignment4\ConsoleApplication1\x64\Debug\ConsoleApplication1.exe (process 9760) exited
with code 0.
Press any key to close this window . . .|
```



## Chunk loading

1. Encryption/Decryption works just fine with simple sentences





```
Microsoft Visual Studio Debug Console
Do you want to encrypt or decrypt text? decrypt
Enter the path to the file you want to process: C:\Users\bubli\OneDrive\Desktop\Hello.txt
Enter the path to save the processed file: C:\Users\bubli\OneDrive\Desktop\Hello1.txt
Enter the key: 1

C:\Users\bubli\OneDrive\Desktop\Assignment4\ConsoleApplication1\x64\Debug\ConsoleApplication1.exe (process 24160) exited
with code 0.
Press any key to close this window . . .|
```

Hello.txt

File Edit View

Ifmmp,xpsme

Ln 1, Col 1 | 11 characters

Hello1.txt

File Edit View

Hello,world

Ln 1, Col 1 | 11 characters

2. Changing the key also works fine, even when the key is bigger than the amount of letters in the alphabet.

The screenshot displays the Visual Studio IDE interface. At the top, a console window titled 'Microsoft Visual Studio Debug Console' shows the execution of a program. The program prompts the user to 'encrypt or decrypt text?', followed by 'enter the path to the file you want to process: C:\Users\bubli\OneDrive\Desktop\Hello.txt', 'enter the path to save the processed file: C:\Users\bubli\OneDrive\Desktop\Hello1.txt', and 'enter the key: 28'. The console output shows the program path and exit code 0. Below the console, two text files are open in the editor. The left file, 'Hello.txt', contains the text 'Hello,world'. The right file, 'Hello1.txt', contains the encrypted text 'Jgnnq.yqtnf'. Both files show the text is underlined, indicating it is selected. The status bar at the bottom of each editor window shows 'Ln 1, Col 1' and '11 characters'.

```
Microsoft Visual Studio Debug Console
Do you want to encrypt or decrypt text? encrypt
Enter the path to the file you want to process: C:\Users\bubli\OneDrive\Desktop\Hello.txt
Enter the path to save the processed file: C:\Users\bubli\OneDrive\Desktop\Hello1.txt
Enter the key: 28

C:\Users\bubli\OneDrive\Desktop\Assignment4\ConsoleApplication1\x64\Debug\ConsoleApplication1.exe (process 13372) exited
with code 0.
Press any key to close this window . . .|
```

Left Editor Window: Hello.txt

File Edit View

Hello,world

Ln 1, Col 1 | 11 characters

Right Editor Window: Hello1.txt

File Edit View

Jgnnq.yqtnf

Ln 1, Col 1 | 11 characters

3. Encoding a sentence. This also did not cause any problems.

The screenshot displays the Microsoft Visual Studio environment. The top section is the Debug Console, which shows the execution of a program. The program prompts the user to choose between encrypting or decrypting text, with 'encrypt' being entered. It then asks for the path to the file to be processed, with 'C:\Users\bubli\OneDrive\Desktop\Hello.txt' entered. Next, it asks for the path to save the processed file, with 'C:\Users\bubli\OneDrive\Desktop\Hello1.txt' entered. Finally, it asks for the key, with '13' entered. The console then shows the program exiting with code 0 and a prompt to press any key to close the window.

The bottom section shows the Code Editor with two open files: 'Hello.txt' and 'Hello1.txt'. The 'Hello.txt' file contains the sentence 'The quick brown fox jumps over the lazy dog.' The 'Hello1.txt' file contains the encrypted version of the sentence: 'Gur dhvpx oebja sbk whzcf bire gur ynml qbt.' The status bar at the bottom of each editor window indicates 'Ln 1, Col 1' and '44 characters'.

```
Microsoft Visual Studio Debug Console
Do you want to encrypt or decrypt text? encrypt
Enter the path to the file you want to process: C:\Users\bubli\OneDrive\Desktop\Hello.txt
Enter the path to save the processed file: C:\Users\bubli\OneDrive\Desktop\Hello1.txt
Enter the key: 13

C:\Users\bubli\OneDrive\Desktop\Assignment4\ConsoleApplication1\x64\Debug\ConsoleApplication1.exe (process 9248) exited
with code 0.
Press any key to close this window . . .|
```

Code Editor - Hello.txt

```
The quick brown fox jumps over the lazy dog.
```

Code Editor - Hello1.txt

```
Gur dhvpx oebja sbk whzcf bire gur ynml qbt.
```

Status Bar - Hello.txt: Ln 1, Col 1 | 44 characters

Status Bar - Hello1.txt: Ln 1, Col 1 | 44 characters