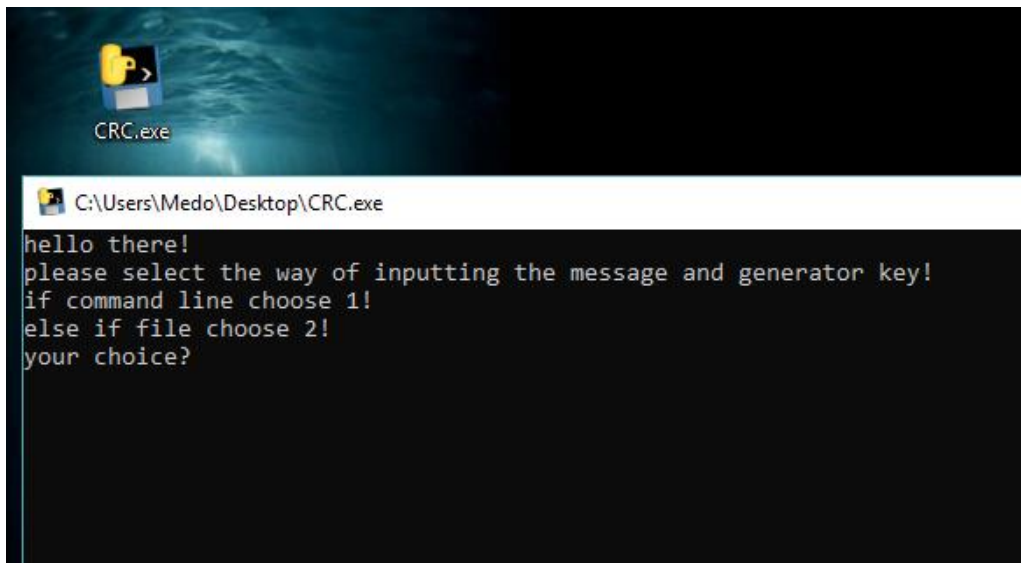
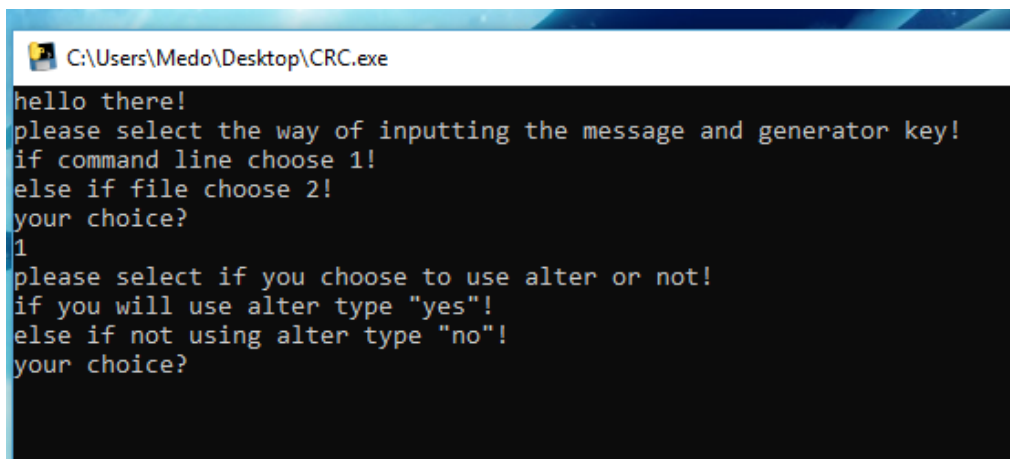


# **Assignment 1** description

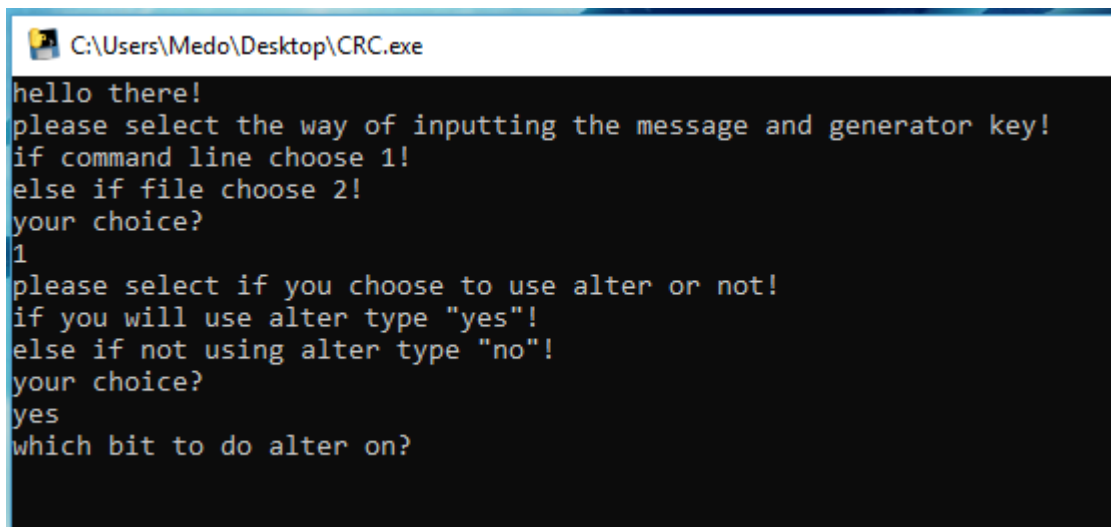
-start the CRC.exe and you will be asked to enter the data through the command line or from file.



-First for command line you should choose 1  
Then you will be asked to use alter or not.

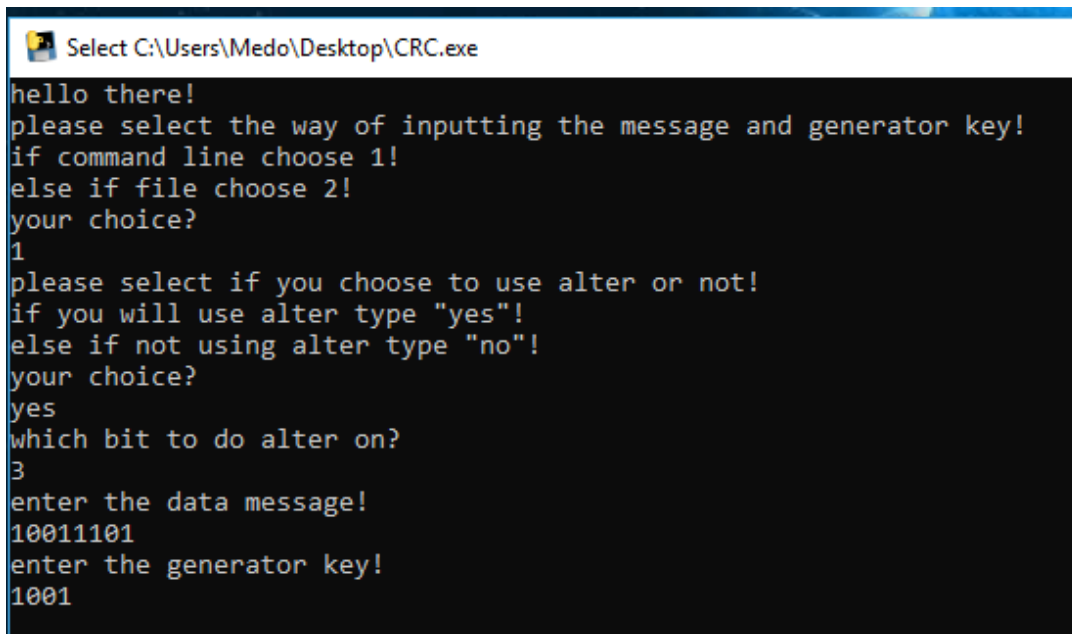


-To use alter just type yes and you will be asked for the bit to do alter on

A screenshot of a Windows application window titled "C:\Users\Medo\Desktop\CRC.exe". The window has a black background with white text. The text is a command-line interface for a CRC calculator. It starts with a greeting "hello there!", followed by instructions to select the input method (command line or file). The user has chosen command line (1). Then, it asks if the user wants to use an alter feature. The user has chosen "yes". Finally, it asks which bit to alter, and the user has entered "1".

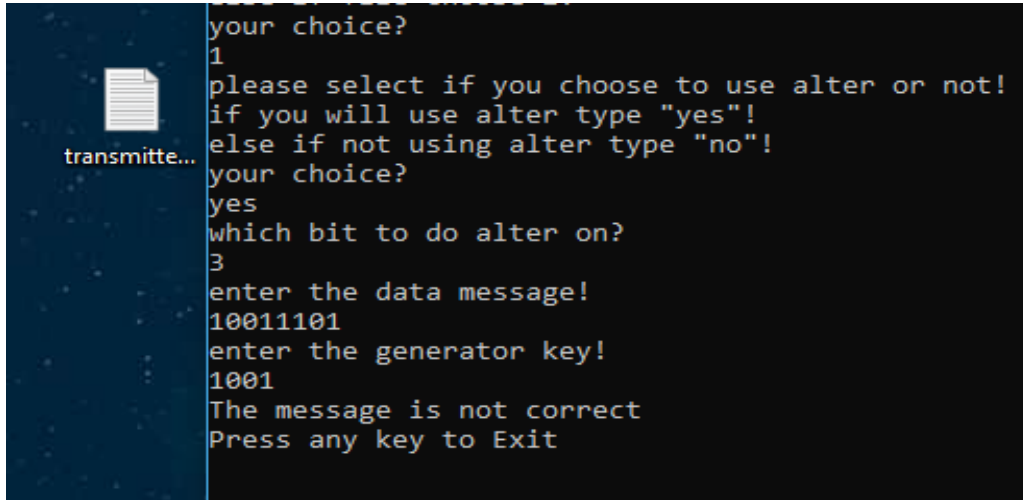
```
C:\Users\Medo\Desktop\CRC.exe
hello there!
please select the way of inputting the message and generator key!
if command line choose 1!
else if file choose 2!
your choice?
1
please select if you choose to use alter or not!
if you will use alter type "yes"!
else if not using alter type "no"!
your choice?
yes
which bit to do alter on?
```

-then you will be asked for data massge then the generator key

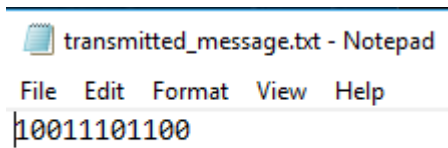
A screenshot of a Windows application window titled "Select C:\Users\Medo\Desktop\CRC.exe". The window has a black background with white text. The text is a command-line interface for a CRC calculator. It starts with a greeting "hello there!", followed by instructions to select the input method (command line or file). The user has chosen command line (1). Then, it asks if the user wants to use an alter feature. The user has chosen "yes". Finally, it asks which bit to alter, and the user has entered "3". Then, it asks for the data message, and the user has entered "10011101". Finally, it asks for the generator key, and the user has entered "1001".

```
Select C:\Users\Medo\Desktop\CRC.exe
hello there!
please select the way of inputting the message and generator key!
if command line choose 1!
else if file choose 2!
your choice?
1
please select if you choose to use alter or not!
if you will use alter type "yes"!
else if not using alter type "no"!
your choice?
yes
which bit to do alter on?
3
enter the data message!
10011101
enter the generator key!
1001
```

-then you will find out if the message is correct or not and you will find (transmitted\_message.txt) that containing the transmitted message.



```
your choice?
1
please select if you choose to use alter or not!
if you will use alter type "yes"!
else if not using alter type "no"!
your choice?
yes
which bit to do alter on?
3
enter the data message!
10011101
enter the generator key!
1001
The message is not correct
Press any key to Exit
```



```
transmitted_message.txt - Notepad
File Edit Format View Help
10011101100
```

-for entering the data through file kindly enter the full path of the text file (or just drag the file to the program)

in the text file the first line must be the data message and the second line must be the generator key.

```
please select if you choose to use alter or not!  
if you will use alter type "yes"!  
else if not using alter type "no"!  
your choice?  
no  
type the address of your file!  
C:\Users\Medo\Desktop\test.txt
```

test.txt - Notepad

File Edit Format View Help

```
1101011111  
10011
```

There is some test cases

1-

```
hello there!  
please select the way of inputting the message and generator key!  
if command line choose 1!  
else if file choose 2!  
your choice?  
1  
please select if you choose to use alter or not!  
if you will use alter type "yes"!  
else if not using alter type "no"!  
your choice?  
no  
enter the data message!  
10011101  
enter the generator key!  
1001  
The message is correct
```


transmitted\_message.txt - Notepad

File Edit Format View Help

```
10011101100
```

2-

```
hello there!
please select the way of inputting the message and generator key!
if command line choose 1!
else if file choose 2!
your choice?
1
please select if you choose to use alter or not!
if you will use alter type "yes"!
else if not using alter type "no"!
your choice?
yes
which bit to do alter on?
3
enter the data message!
10011101
enter the generator key!
1001
The message is not correct
```


 transmitted\_message.txt - Notepad

File Edit Format View Help

10011101100

3-

```
hello there!
please select the way of inputting the message and generator key!
if command line choose 1!
else if file choose 2!
your choice?
1
please select if you choose to use alter or not!
if you will use alter type "yes"!
else if not using alter type "no"!
your choice?
no
enter the data message!
1101011111
enter the generator key!
10011
The message is correct
```

 transmitted\_message.txt - Notepad

File Edit Format View Help

11010111110010