

Networks  
Assignment 1  
CRC Implementation

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Procedures:

1. Run exe file
2. Enter input file path.

```
Enter input file Path then press Enter  
D:\Menna\4th Elerctrical 1st Term\Subjects\Networks\Assignments\Assignment1\input.txt
```

3. Choose:

i) '1' for verification only.

```
Choose '1' for verification only or '2' for alter  
1
```

ii) '2' for alter with verification.

*\*Note : bit location starts from 0 most significant left bit.*

```
Choose '1' for verification only or '2' for alter  
2
```

Example 1:

Frame: 1101011111

Generator: 10011


- Result for verification only.

```
transmitted frame : 11010111110010
Message Verified
Open the (output.txt) file in the same location of the exe folder
```

- Result for alter (bit =3) with verification.

```
transmitted frame : 11010111110010
Message Verified
Enter bit location you want to alter then press Enter
3
frame with altered bit : 11000111110010
Message not Verified
Open the (output.txt) file in the same location of the exe folder
```

- Output.txt file for both cases

 output.txt - Notepad

File Edit Format View Help

Tranmitted : 11000111110010

Example 2:

Frame: 11010011101100

Generator: 1011

- Result for verification only.

```
transmitted frame : 11010011101100100
Message Verified
Open the (output.txt) file in the same location of the exe folder
```

- Result for alter (bit =12) with verification.

```
transmitted frame : 11010011101100100
Message Verified
Enter bit location you want to alter then press Enter
12
frame with altered bit : 11010011101110100
Message not Verified
Open the (output.txt) file in the same location of the exe folder
```

- Output.txt file for both cases



output.txt - Notepad

File Edit Format View Help

Tranmitted : 11010011101100100

Example 3:

Frame:110101

Generator:101

- Result for verification only.

```
transmitted frame : 11010111
Message Verified
Open the (output.txt) file in the same location of the exe folder
```

- Result for alter (bit =5) with verification.

```
transmitted frame : 11010111
Message Verified
Enter bit location you want to alter then press Enter
5
frame with altered bit : 11010011
Message not Verified
Open the (output.txt) file in the same location of the exe folder
```

- Output.txt file for both cases



output.txt - Notepad

File Edit Format View Help

Tranmitted : 11010111