# Networks Assignment 1 CRC Implementation

# **Student Names:**

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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

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 : 110001111110010

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

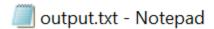
12

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



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



File Edit Format View Help

Tranmitted : 11010111