

# CRC PROGRAMMING ASSIGNMENT

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# **TEST CASE 1**

MESSAGE: 10011101

**GENERATOR: 1001** 

#### GENERATOR < FILE | VERIFIER

```
Please enter the path of the input file
C:\Users\Eman Ashraf\Desktop\Network_Assignments\test_cases\testcase1\input.txt
Please select which sequance you want:
1 - generator --> verifier
2 - generator --> verifier --> alter --> verifier

transmitted message: 10011101100
message is correct
```

### GENERATOR < FILE | VERIFIER | ALTER 3 | VERIFIER

```
Please enter the path of the input file
C:\Users\Eman Ashraf\Desktop\Network_Assignments\test_cases\testcase1\input.txt
Please select which sequance you want:
1 - generator --> verifier
2 - generator --> verifier --> alter --> verifier
2 transmitted message: 10011101100
message is correct
Enter the index of the bit you want to change
altered message: 10001101100
message is not correct
```

# **TEST CASE 2**

MESSAGE: 1101011111

**GENERATOR: 10011** 

#### GENERATOR < FILE | VERIFIER

```
Please enter the path of the input file
C:\Users\Eman Ashraf\Desktop\Network_Assignments\test_cases\testcase2\input.txt
Please select which sequance you want:
1 - generator --> verifier
2 - generator --> verifier --> alter --> verifier

transmitted message: 11010111110010
message is correct
```

#### GENERATOR < FILE | VERIFIER | ALTER 3 | VERIFIER

```
Please enter the path of the input file
C:\Users\Eman Ashraf\Desktop\Network_Assignments\test_cases\testcase2\input.txt
Please select which sequance you want:
1 - generator --> verifier
2 - generator --> verifier --> alter --> verifier
2 transmitted message: 11010111110010
message is correct
Enter the index of the bit you want to change

altered message: 11010011110010
message is not correct
```

# **Error Handling**

#### **OPENING FILE**

```
Please enter the path of the input file
C:\Users\Eman Ashraf\Desktop\Network_Assignments\test_cases\testcase2\file.txt
Couldn't open the file!
Please enter the path of the input file
```

#### **INVALID CHOICE**

```
Please enter the path of the input file
C:\Users\Eman Ashraf\Desktop\Network_Assignments\test_cases\testcase2\input.txt
Please select which sequance you want:
1 - generator --> verifier
2 - generator --> verifier --> alter --> verifier

Invalid input!
Please select which sequance you want:
1 - generator --> verifier
2 - generator --> verifier
2 - generator --> verifier
```

#### **INVALID INDEX**

```
Please enter the path of the input file

G:\Users\Eman Ashraf\Desktop\Network_Assignments\test_cases\testcase2\input.txt

Please select which sequance you want:

1 - generator --> verifier

2 - generator --> verifier --> alter --> verifier

2

transmitted message : 11010111110010

message is correct

Enter the index of the bit you want to change

100

Index out of range!

Enter the index of the bit you want to change
```