



Daffodil
International
University

Assignment NO: 02

Assignment Name: Create 5 numbers and prove the 5 numbers has been transmitted accurately using Checksum.

Course Code: CSE411

Course Title: Communication Engineering

Submitted To:

A S M Farhan Al Haque (ASMFH)

Department of CSE

Daffodil International University

Submitted By:

Habiba Akter

Daffodil International University

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Calculation:

Our data is a list of five 4 bit numbers
that we want to send to a destination. The
numbers are (2, 0, 14, 15, 2). We send
addition these numbers, we send
(2, 0, 14, 15, 2, 33). Where 33 is the
sum of the original numbers.

sender site

	2
	0
	14
	15
	2
	0
Sum	33
Wrapped sum	3
Checksum	12

2,0,14,15,2,12

Packet

Receiver site

	2
	0
	14
	15
	2
	12
sum	45
Wrapped sum	15
Checksum	0

100001	33
10	
0611	3
1100	12

Details of wrapping and complementing

101101	45
10	
1111	15
0000	0

Details of wrapping and complementing

We can see the receiver site the value of checksum is 0, This means that the data is not corrupted. The message is accepted.