National Institute of Technology Srinagar Department of Information Technology

Implementation of Line encoder and Scrambler

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Assumptions:
The format used is Manchester and
differential Manchester is
G.E Thomas format

Objectives:
Generates completely random data sequence
and a random sequence with some fixed
subsequences like eight or four con-
secutive zeros

Line coding schemes implemented: NRZ-L,
NRZ-I, Manchester, Differential
Manchester, AMI

Scrambling schemes: B8ZS, HDB3 Language
used: Python

Libraries used:
Matplotlib,Numpy,Random,Timedata

References:Geekforgeeks,javapoint,differe
nt youtube channels,Stackoverflow