Line Coding Project

Data Communication

October 24, 2018

1 Introduction

Implemented Line coding encoder and scrambler with digital data generator.

- Digital data generator: generated completely random data sequence.

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

- Scrambling schemes: B8ZS, HDB3.

2 Language and Libraries Used

- Language Python 3

- Libraries

    - Matplotlib
    - NumPy
    - Random

3 Result

Digital data stream given, longest palindrome in that data stream, digital signal produced and in case of scrambling, scrambled signal produced.

4 Team Member

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