



Republic of the Philippines

CAVITE STATE UNIVERSITY

Don Severino de las Alas Campus

Indang, Cavite

COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY Department of Information Technology

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Student No.: 202101956

Course / Yr. / Sec.: BSCS 3-2

Date: December 12, 2023

Activity: Digital-to-Digital Encoding Schemes(asynch)

Instructions:

- Convert the following *Data Sets* using different *Digital-to-Digital Encoding Schemes*.
- Encode the following Binaries with: **Unipolar, Polar (NRZ-L, NRZ-I, RZ, Manchester, Differential Manchester), and Bipolar (AMI, Pseudoternary)**.
-
- Assuming all incoming signal after data set is **Positive**.
- Total score of: 100pts (-10 per encoding schemes)

Data Set to Convert

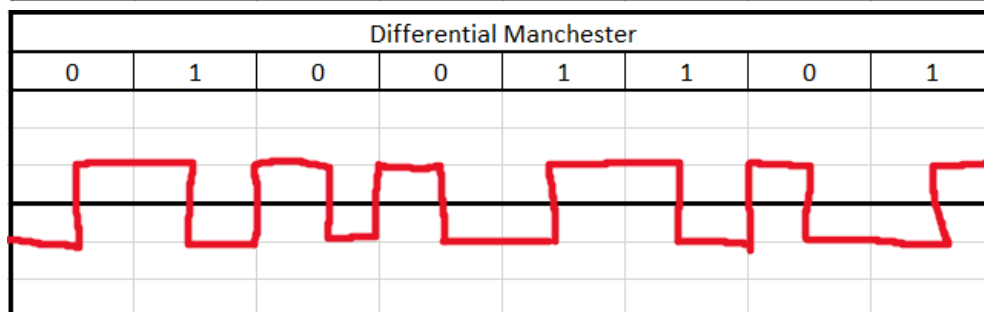
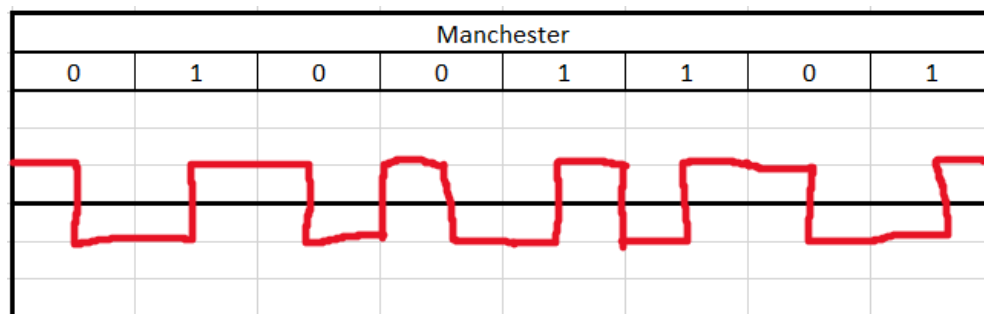
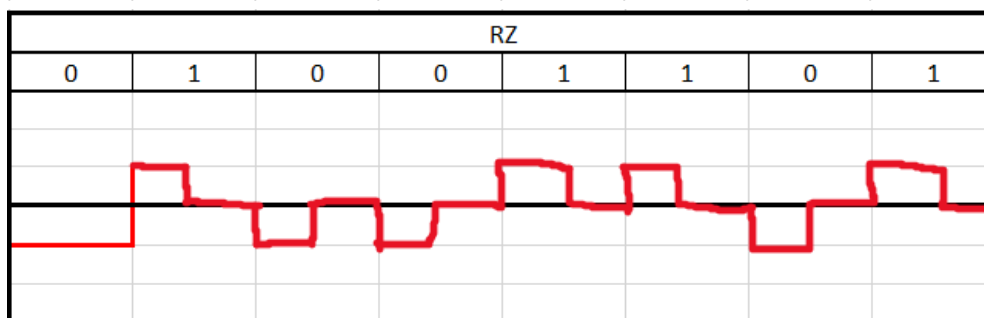
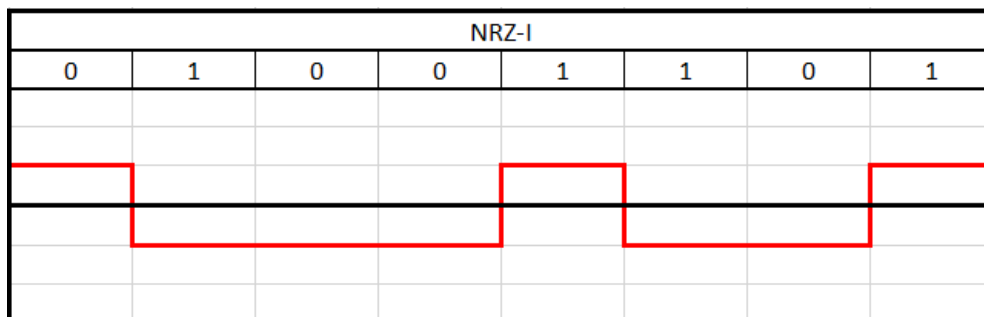
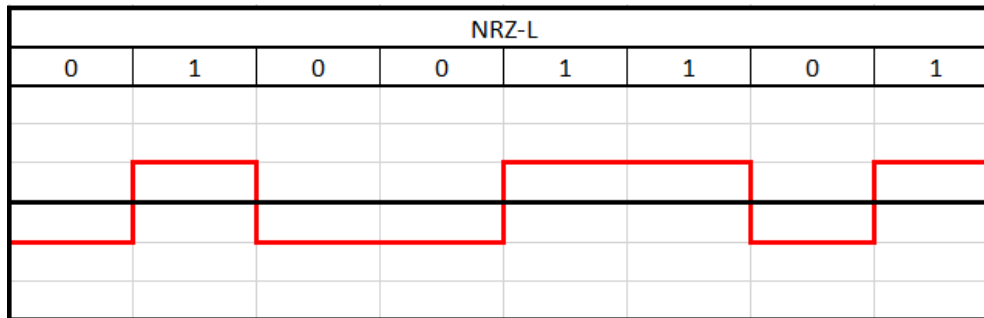
1. 01001101
2. 10110100
3. 11010010



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II. Polar Encoding

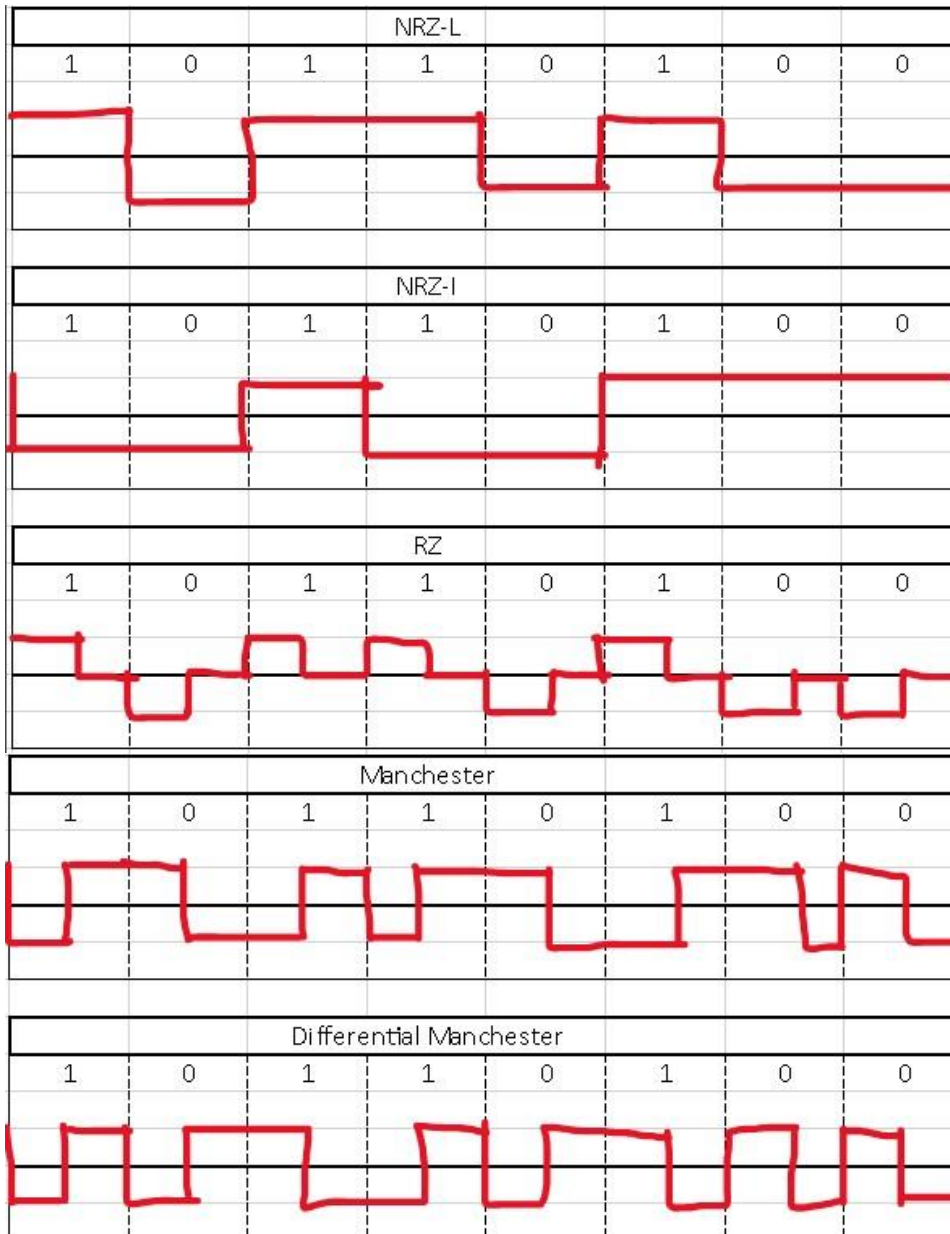
1. 01001101





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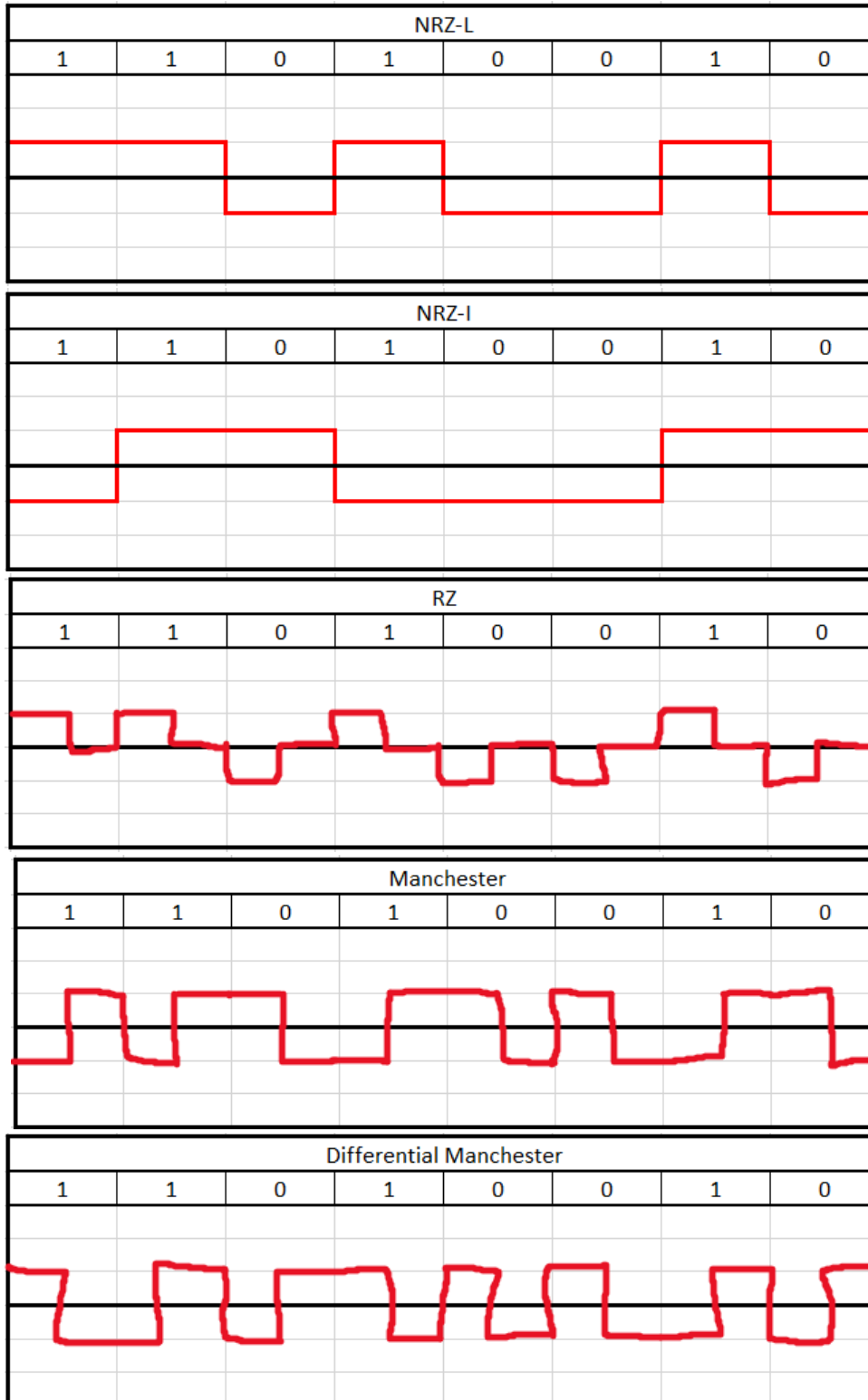
2. 10110100





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3. 11010010

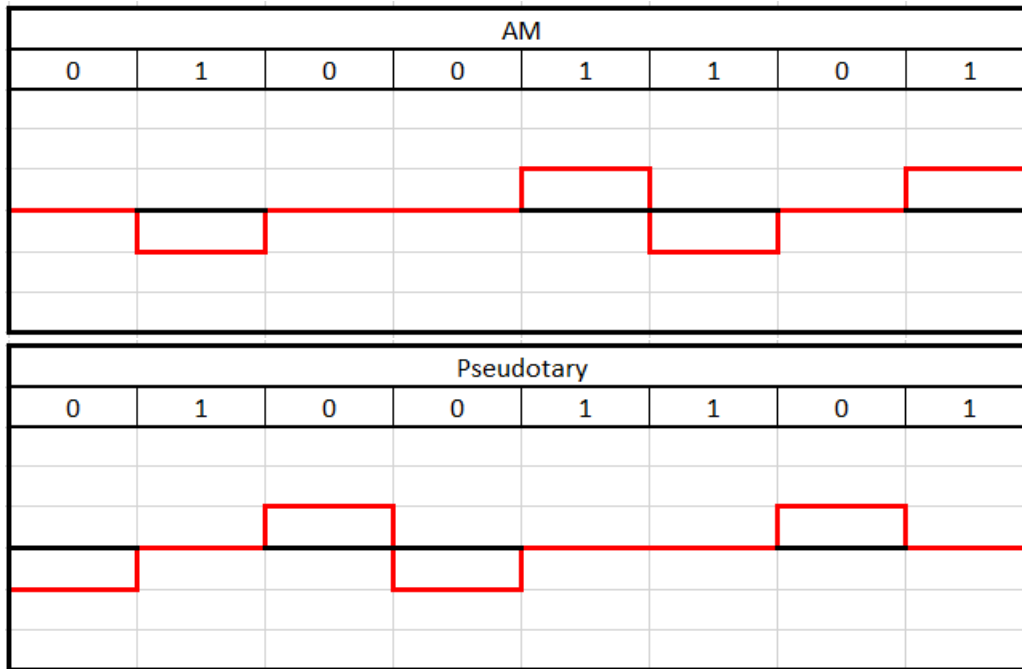




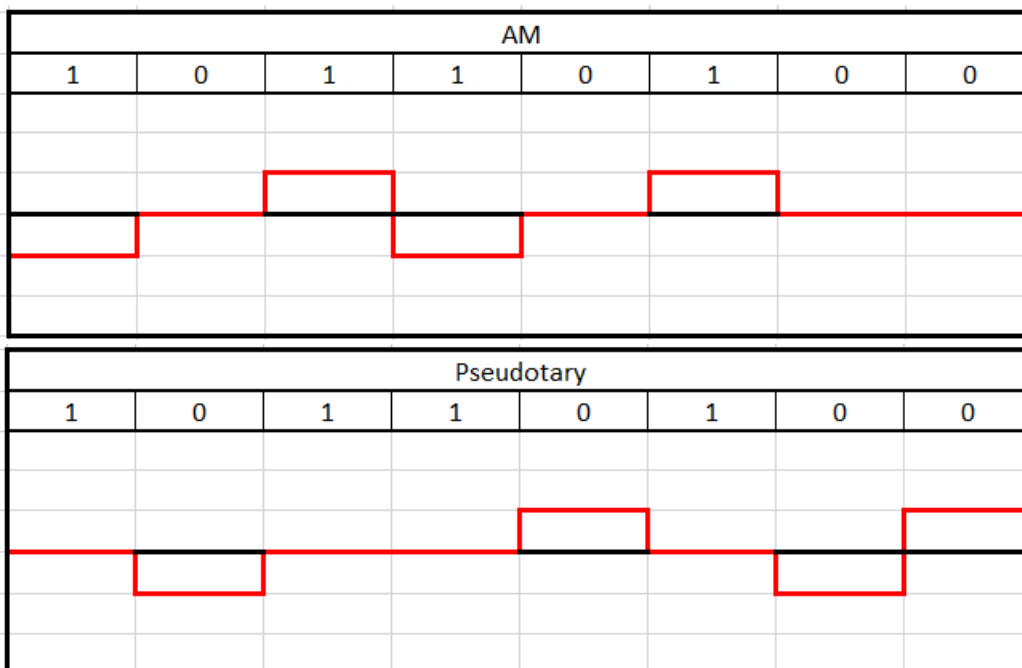
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III. **Bipolar Encoding**

1. 01001101



2. 10110100



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3. 11010010

