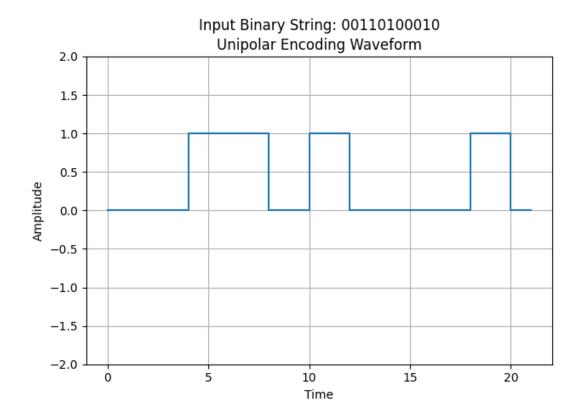
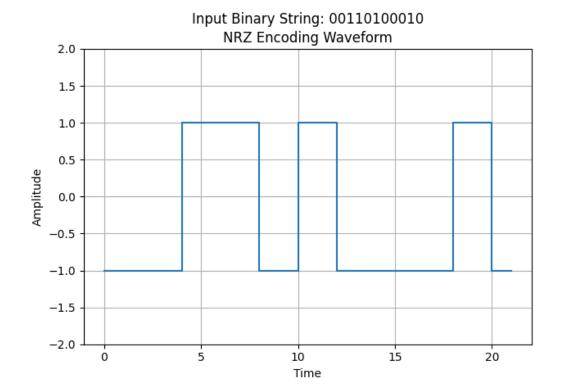
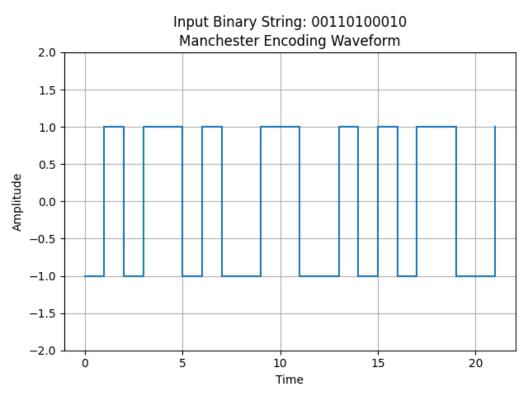
Sample Input: 00110100010

Outputs:

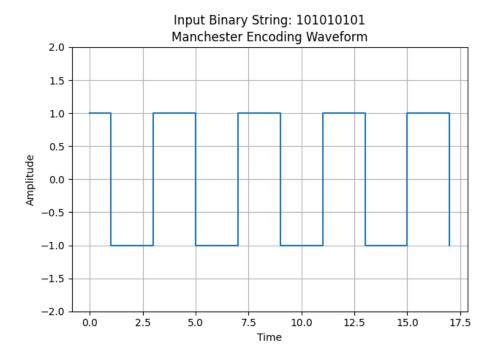


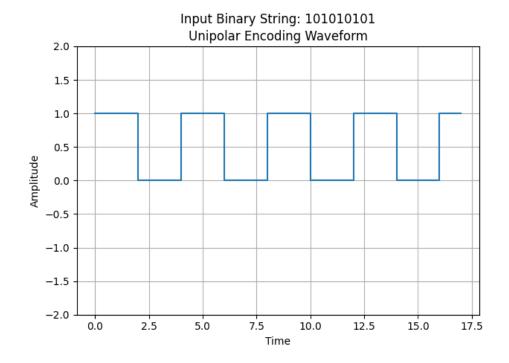


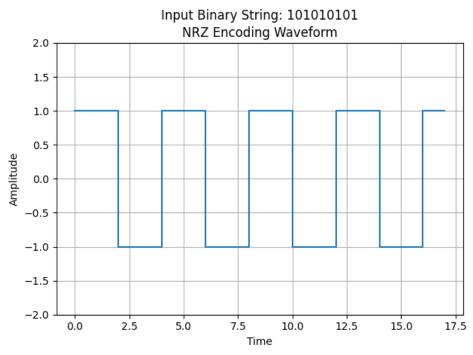


Sample Input: 101010101

Outputs:







Sample Input: 1110001110

Outputs:

