CSE 232 SPRING 2020

HOMEWORK I

Due Date March 16, Monday

١.	Assume that 0 V is encoded as 00, 1 V as 01, 2 V as 10, and 3 V as 11. You are given a digital
	encoding of an audio signal as follows: 1111101001010000. Plot the re-created signal with time
	on the x-axis and voltage on the y-axis. Assume that each encoding's corresponding voltage
	should be output for 1 millisecond.

 2. Convert the following binary numbers to decimal numbers: a. 000011 b. 1111 c. 11110 d. 111100 e. 0011010
3. Convert the following binary numbers to hexadecimal:
a.
4. Convert the following hexadecimal numbers to decimal:
a. 10 b. 4E3 c. FF0 d. 200
5. Encode the following words into bits using the ASCII encoding table in Figure 1.9.
a. LET b. RESET! c. HELLO \$1