

Tutorial 1 (Question)

1. Name two advantages of digital data as compared to analog data.
2. Name an analog quantity other than temperature and sound.
3. Determine the period of the digital waveform in Figure 1?
4. What is the frequency of the waveform in Figure 1?

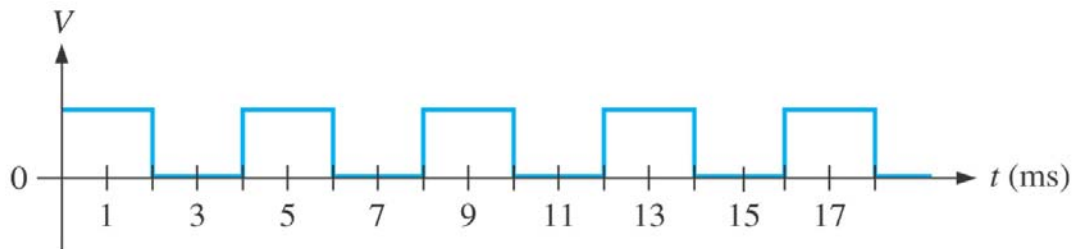


Figure 1

5. Is the pulse waveform in Figure 1 periodic or nonperiodic?
6. Determine the duty cycle of the waveform in Figure 1.
7. A logic circuit requires HIGHS on all its inputs to make the output HIGH. What type of logic circuit is it?
8. A basic 2-input logic circuit has a HIGH on one input and a LOW on the other input and the output is LOW. Identify the circuit.
9. A basic 2-input logic circuit has a HIGH on one input and a LOW on the other input and the output is HIGH. What type of logic circuit is it?
10. Develop the Truth Table for AND, OR and NOT Gate.