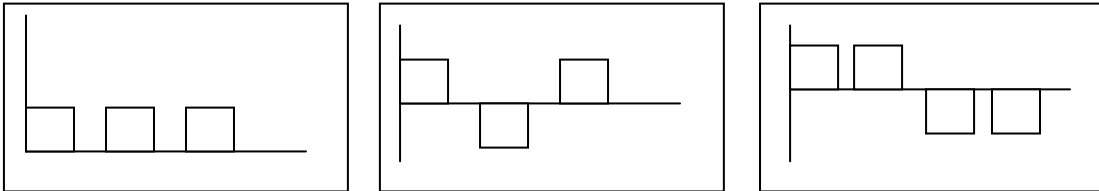


Applications sheet

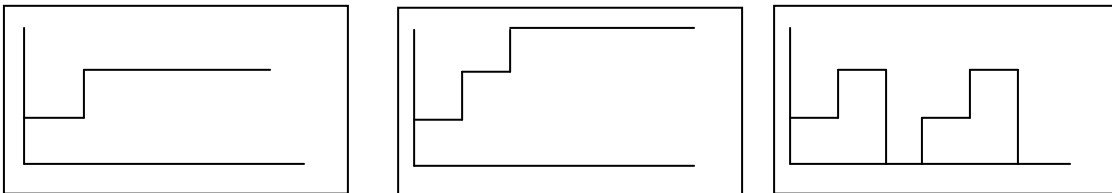
- 1- Design a flasher circuit.
- 2- For 3 pumps system, when start push button is pressed:
 - a) Pump 1 is on for 10 seconds then stop
 - b) Pump 2 is on for 1 second then stop
 - c) Wait for 5 seconds
 - d) Pump 3 is on for 20 seconds then stop.
 - e) Repeat the entire process.

If stop push button is pressed at any time all the 3 pumps should be stopped.

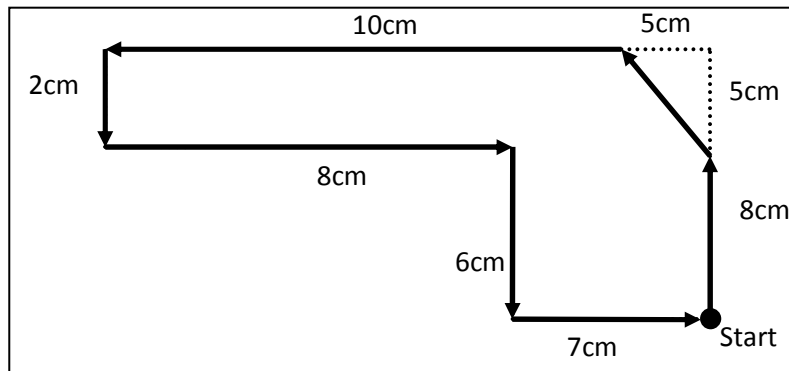
- 3- Count the number of people in a store. The store has an entrance, exit door and a maximum capacity of 10 people. When the maximum capacity is reached a flasher circuit indicates that the store is full.
- 4- A DC motor to be driven in one of the following ways according to user selection:



- 5- A motor operated in one of the following ways according to user selection:



- 6- A CNC machine is to cut out the following shape:



The drill starts operation at the Start point. The drill is moved in the four directions via two motors. The motors move at 0.5sec/cm. After the shape is cut out the machine is stopped until restarted again.