



## Algorithm for Water level Indicator

- \* Consider PORT 1 as subjut port which is connected to Common-Anode (CA) configured FND, and pins P2-D and P2-1 as input pins.
- \* Howit works?
  - -> Water conducts electricity.
  - So, whenever wader reaches certain level, it forms a closed circuit as shown in figure and input port pine receive Low pulse ('o'), otherwise High pulse / post pine values are logic 1?
  - -> Now, we continuously check the water level in tank with input pins P2.0, P2.1
  - -> First we check P2.0, if high signal/pulse on P2.0, then display 'E' on FND which means empty.
  - Otherwise, tank can be either half or full.
  - Josephay 'H' on FND which means at half level.
  - -) Else, we can conclude that it is at full level and display (F) on FND.

## Program:

ORGI OH

MOV PI, #OFFH; No display on FND

UP: JB P2.0, EMPTY

JNB P2-1, FULL

MOV PI, #91H ; 'H' is displayed on FNO

SJMP NXT

EMPTY: MOV PI, #61H; 'E' is displayed on FND

SIMP NXT

FULL: MOV PI, #81H; 'F' is displayed on FND.

ANT: SIMP UP

> check continuedy.

## Logic:

	,		
,	P2·0	P2·1	Status of Tank
	0	0	full
	٥	1	Half
	ı	0	Not possible
	·		Empty

display unde of E = 61H display rade of 'H' = 91H display ude of (F) = 81H