**SET-3**

**AIM: WAP to perform following:**

**i)Keep monitoring P1.2 until it becomes high**

**ii)When P1.2 becomes high, write value 45H to P0**

**iii)Send a low to high pulse to P2.3**

**CODE:**

ORG 00H

MOV A,#45H ;A=45H

L1:

JNB P1.2,L1 ;if P1.2=0 then repeat loop L1

MOV P0,A ;move value in A to P0

SETB P2.3 ; setting pulse low to high

CLR P2.3 ; set P2.3=0

END

**RESULT**

**INPUT:** (LSB)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PORT 0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PORT 1** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PORT 2** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**OUTPUT:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PORT 0** | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| **PORT 1** | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **PORT 2** | 0 | 0 | 0 | 0 | 1 -> 0 | 0 | 0 | 0 |