**GENERATION OF SQUARE WAVE USING PROTEUS**

**AIM:**

To write an assembly language program to generate square wave using 8051.

**SOFTWARE REQUIRED:**

* Proteus 8 software.

**PROGRAM**

ORG 0000H

UP: SETB P2.0

ACALL DELAY

CLR P2.0

ACALL DELAY

SJMP UP

DELAY: MOV R4,#35

H1: MOV R3,#255

H2: DJNZ R3,H2

DJNZ R4,H1

RET

END

**CIRCUIT DIAGRAM:**

