EXPERIMENT - 8

AIM:- TO BLINK 8 LED's WITH A TIME PERIOD OF 2 SECONDS.

CODE:-

```
ORG 0000H
    MOV A,#00H
    MOV P2,A                    //MAKE P0 OUTPUT PORT
    LOOP: CPL A
        MOV P2,A
    ACALL DELAY
    SJMP LOOP
    DELAY:MOV R4,#10
        LABEL3:MOV R3,#200
        LABEL2:MOV R2,#250
        LABEL1:DJNZ R2,LABEL1
        DJNZ R3,LABEL2
        DJNZ R4,LABEL3
        RET
    END
```

OUTPUT:-

```
          ┌─────────────┐
          │    START    │
          └─────────────┘
                 │
                 ▼
        ╱─────────────────╲
       ╱    CLEAR           ╲
      ╱  ACCUMULATOR         ╲
     ╱  AND DECLARE P0 AS     ╲
     ╲     OUTPUT PORT        ╱
      ╲─────────────────────╱
                 │
                 ▼
    ┌───────────────────────────┐
    │       COMPLIMENT          │
    │    ACCUMULATOR AND        │
    │   OUTPUT THE DATA TO P0   │
    │                           │
    └───────────────────────────┘
                 │
                 ▼
    ┌───────────────────────────┐
    │      CALL 1 SECOND        │
    │         DELAY             │
    └───────────────────────────┘
                 │
                 ▼
          ┌─────────────┐
          │     END     │
          └─────────────┘
```