INTERFACING OF RELAY AND LED WITH 8051 USING PROTEUS

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COURSE CODE: ECA1487, Embedded Systems for IOT Applications

PROGRAM:

ORG 0000H ; Start of program; Initialize Port 1 as output port for relay control
MOV P1, #00H ; Clear Port 1 (all pins low initially)
MAIN_LOOP:
SETB P1.0 ; Set P1.0 HIGH (Relay ON, LED ON)
ACALL DELAY ; Call delay to keep the LED ON for some time CLR P1.0 ; Clear P1.0 (Relay OFF, LED OFF)

ACALL DELAY; Call delay to keep the LED OFF for some time

SJMP MAIN LOOP; Repeat the process

; Delay subroutine for blinking speed

DELAY:

MOV R1, #255; Outer loop

DELAY1:

MOV R2, #255; Inner loop

DELAY2:

DJNZ R2, DELAY2; Decrement inner loop DJNZ R1, DELAY1; Decrement outer loop

RET ; Return to main loop END ; End of program

OUTPUT:

