

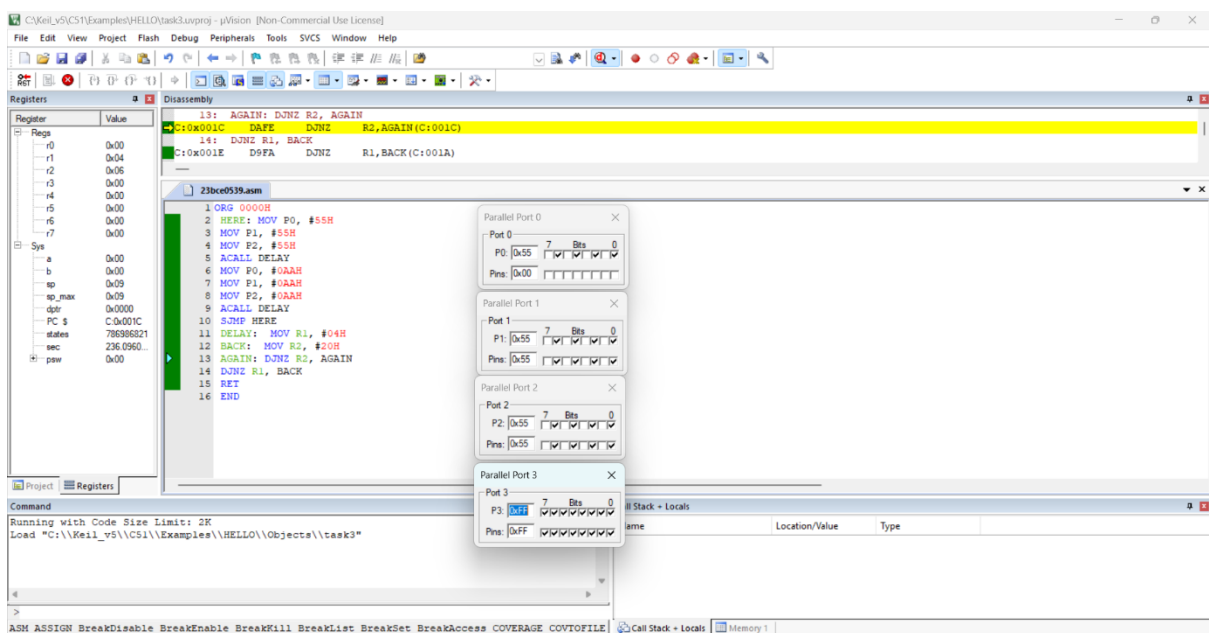
TASK 2

REG NO: 23BCE2001

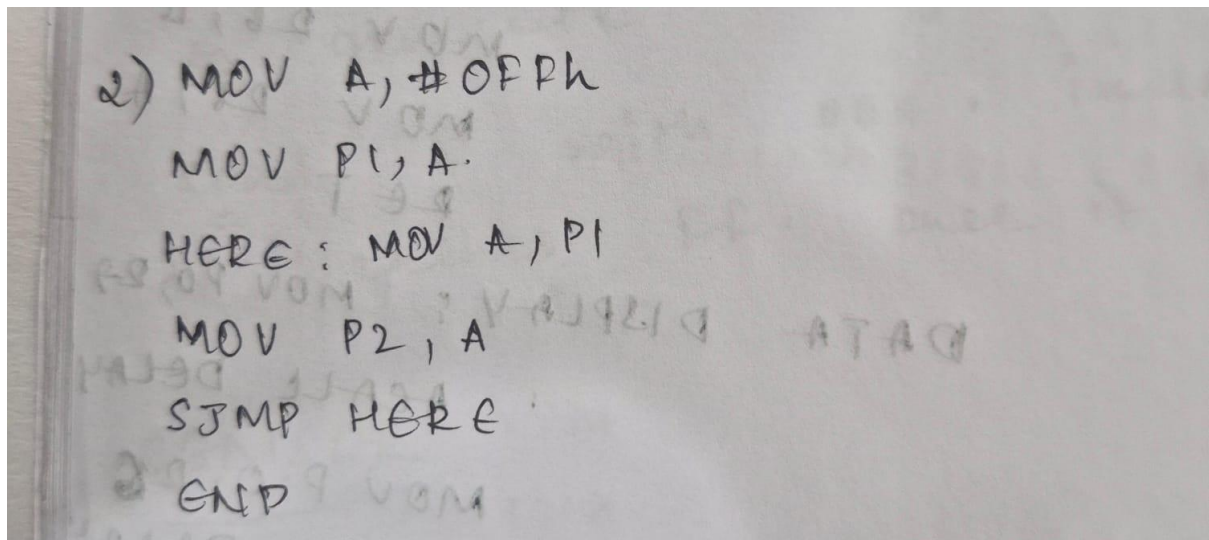
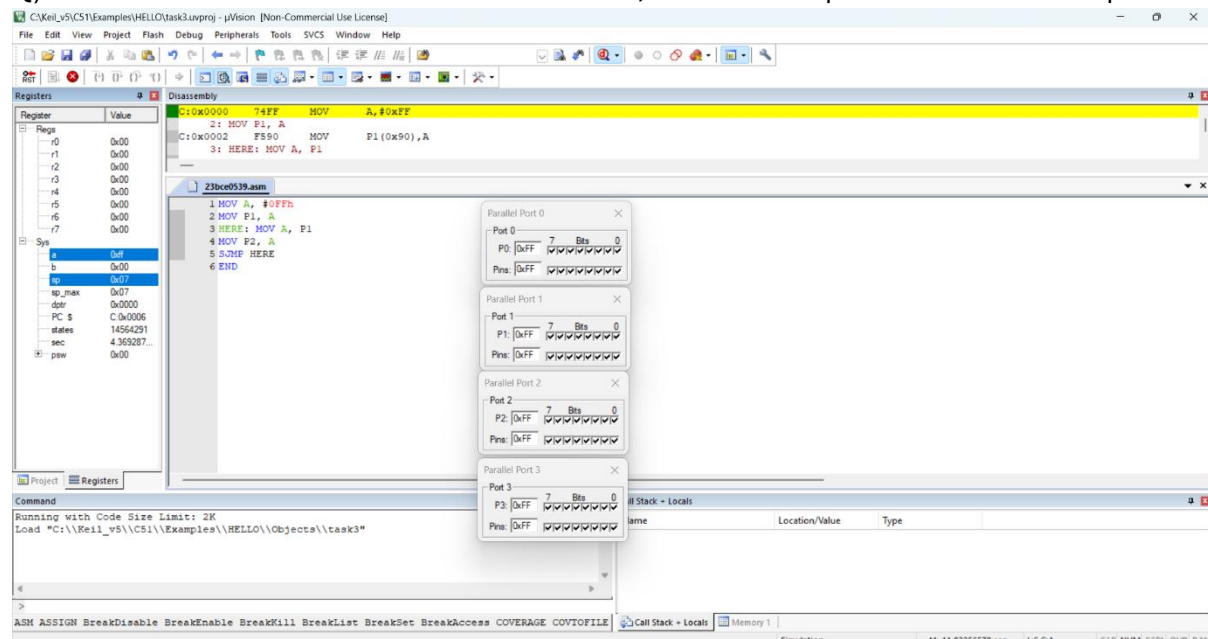
NAME: G.Siddarth

Q)Write and assemble a program to toggle all the bits of P0, P1, and P2 continuously by sending 55H and AAH to these ports. Put a time delay between the "on" and "off" states. Then using the simulator, single-step through the program and examine the ports. Do not single-step through the time delay call.

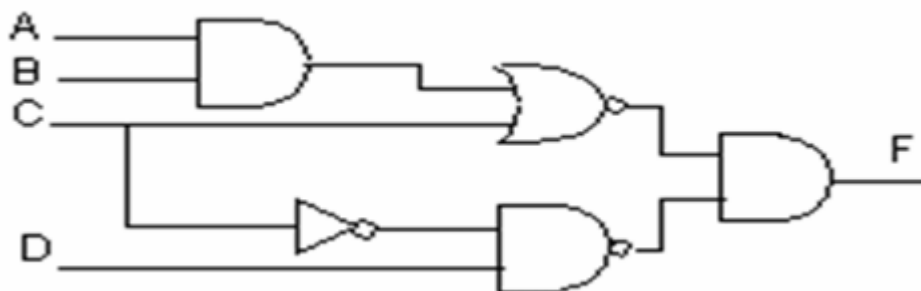
```
1)  ORG 0000H
    HERE: MOV P0, #55H
    MOV P1, #55H
    MOV P2, #55H
    ACALL DELAY
    MOV P0, #0AAH
    MOV P1, #0AAH
    MOV P2, #0AAH
    ACALL DELAY
    SJMP HERE
    DELAY: MOV R1, #04H
    BACK: MOV R2, #20H
    AGAIN: DJNZ R2, AGAIN
    DJNZ R1, BACK
    RET
    END
```

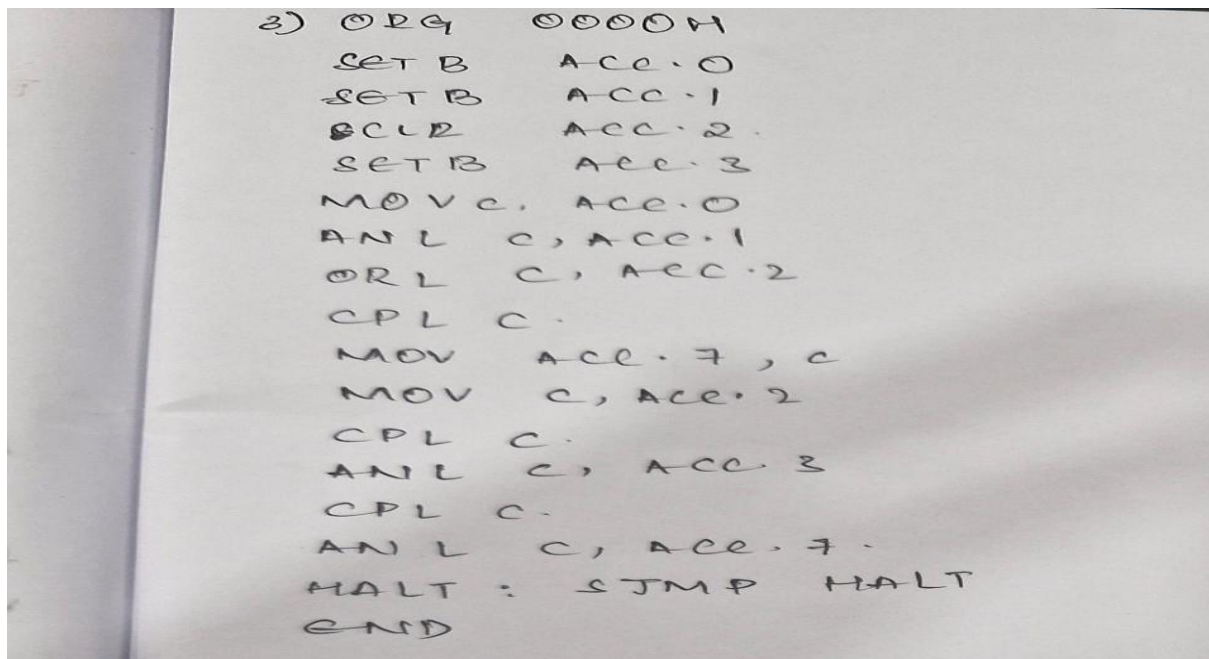
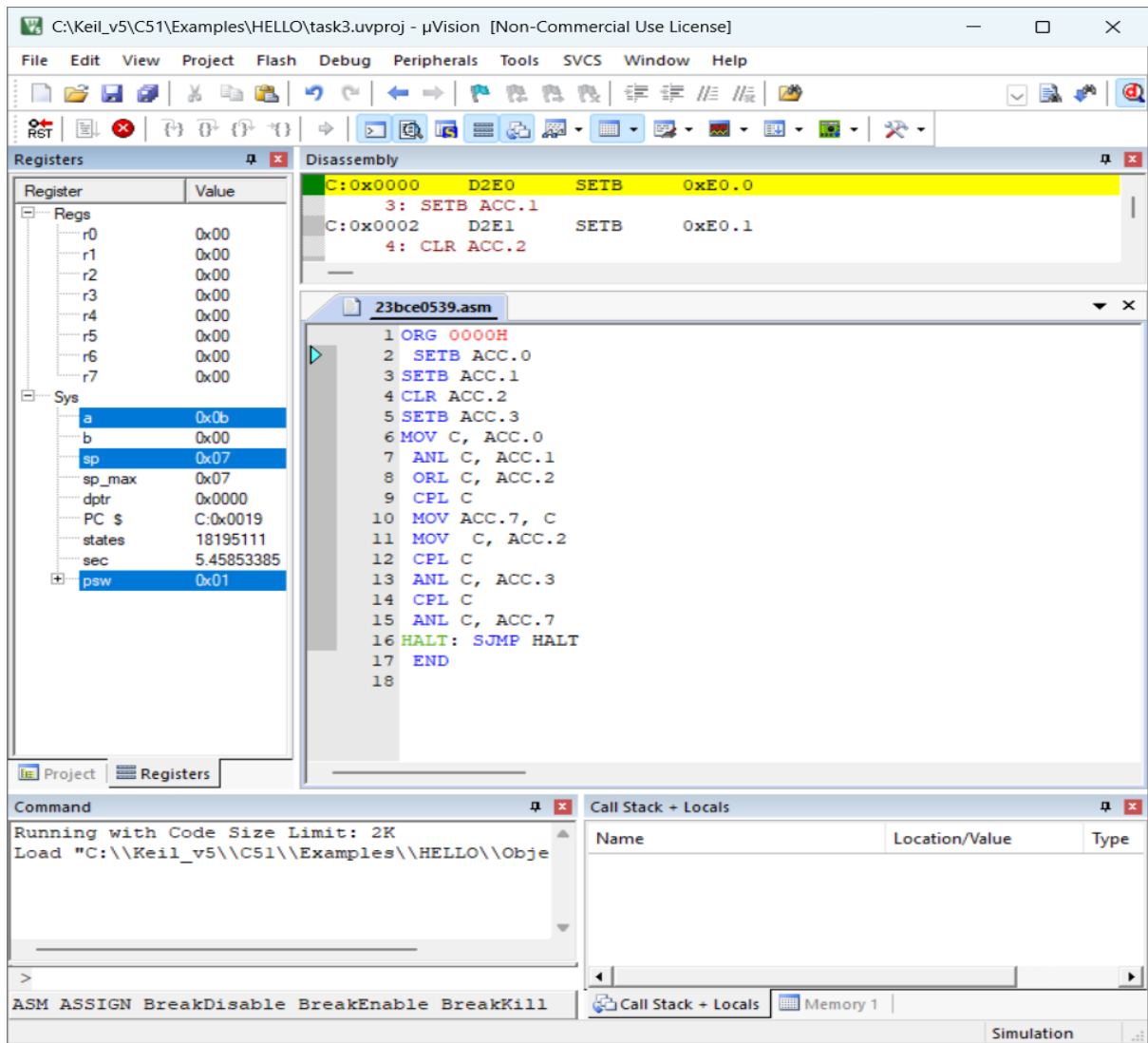


Q) Get the Data from Port P1 and Send it to Port P2, Note: P1 as input Port and P2 as Output Port



Q) Objective: To develop an assembly code for 8051 Microcontroller, to implement the given digital circuit using KEIL development tool





Q)

