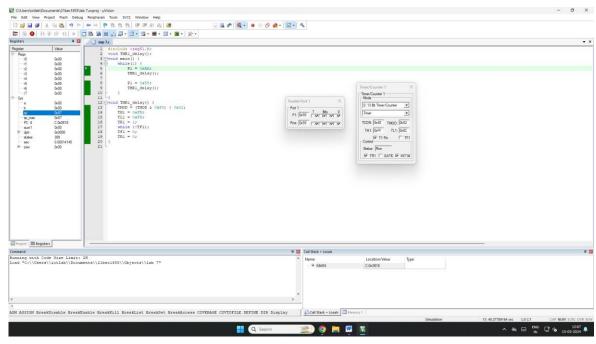
EXPERIMENT 7

PROGRAMS ON TIMER AND COUNTER

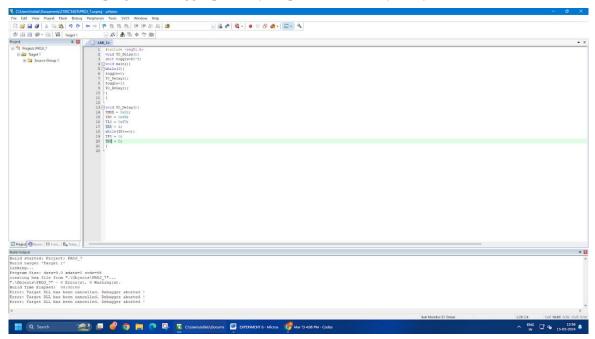
Name: Yash Verma Reg No: 21BEC1277

TIMER

1. Write an 8051 C program to toggle port P1 continuously with some delay. Use timer 1 and Mode 2 for delay.

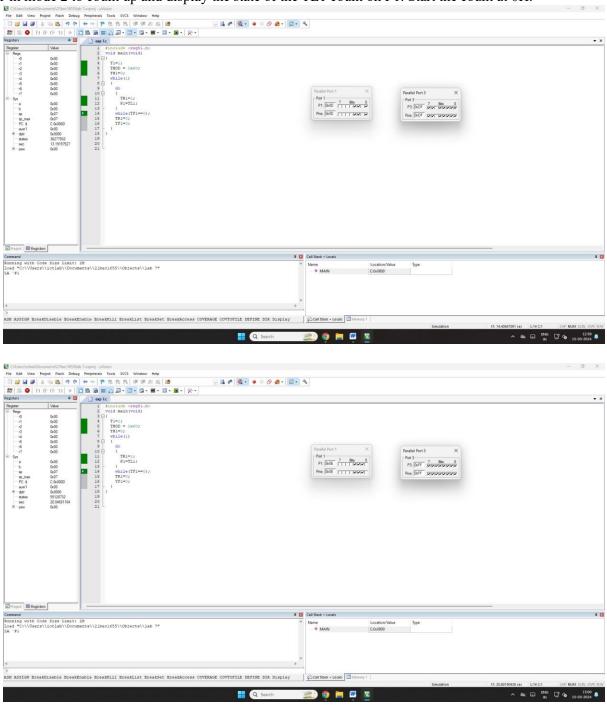


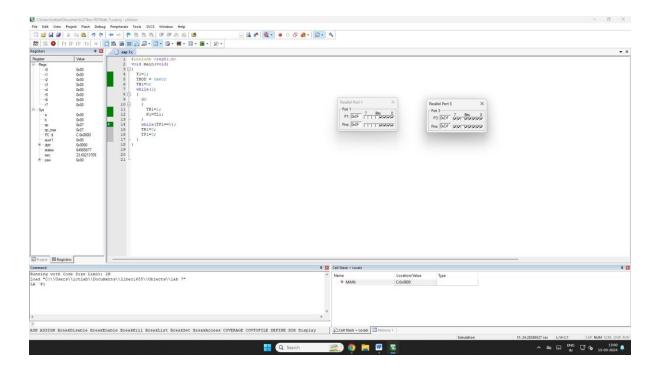
2. Write an 8051 C program to toggle port only bit p1.5 continuously every 50ms.



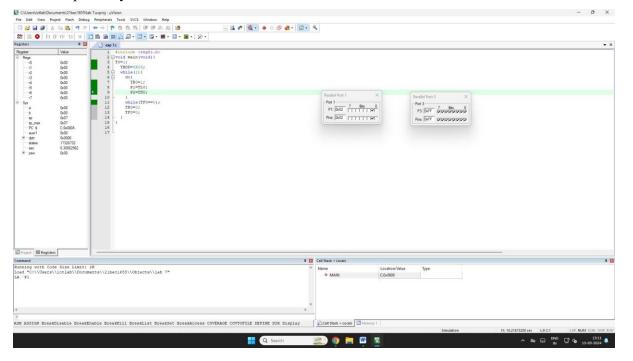
COUNTER

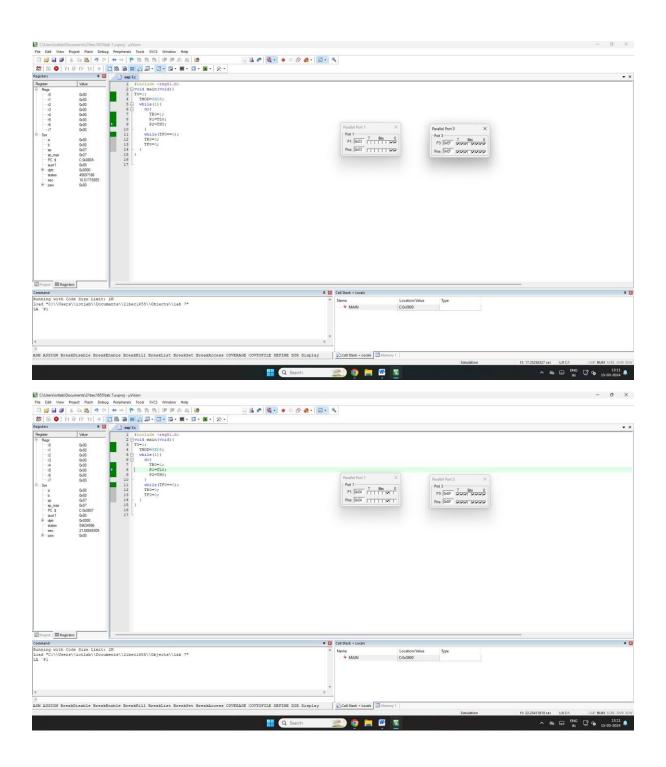
1. Assume that a 1-Hz external clock is being fed into pin T1(P3.5). Write a C program for counter 1 in mode 2 to count up and display the state of the TL1 count on P1. Start the count at 0H.





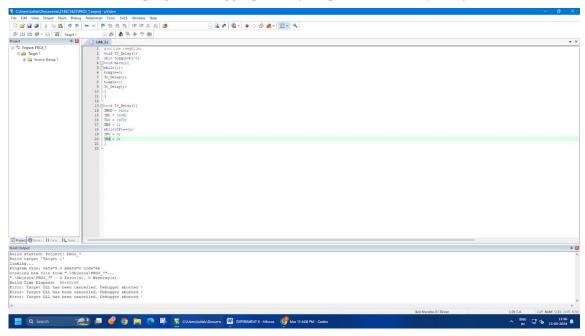
2. Assume that a 1-Hz external clock is being fed into pin T0(P3.4). Write a C program for counter 0 in mode 1 to count up and display the state of the TL0 and TH0 registers on P1 and P2, respectively.



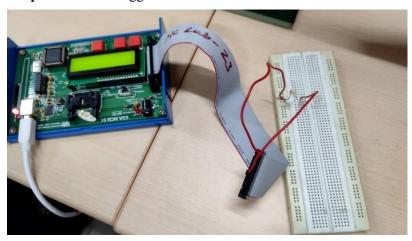


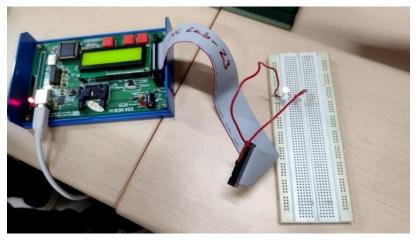
HARDWARE:

1. Write an 8051 C program to toggle port only bit p1.5 continuously every 50ms.



Output: The LED toggles.





RESULT:

Hence the programs on timer and counter has been done and verified.