INSTITUTE OF COMPUTER TECHNOLOGY

B-TECH COMPUTER SCIENCE ENGINEERING 2025-26

SUBJECT:-Microcontroller & Applications

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BRANCH: CYBER SECURITY

BATCH: 52

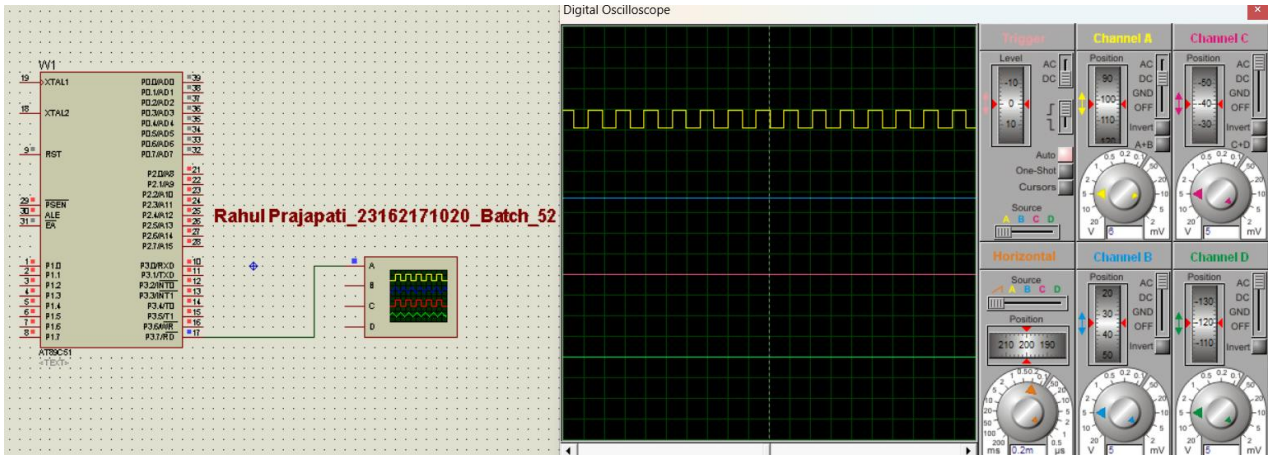
PRACTICAL_9

Aim: Learning advanced programming using Jumps and CALLs.

Write a program to Generate a square wave of 4 KHz frequency on pin P3.7. Assume the crystal frequency to be 11.0592 MHz. Implement the program on Proteus module and verify the frequency output. Also implement the same on 8051 hardware kit to verify the same.

CODE:

OUTPUT:


U1
XTAL1
XTAL2
RST
PSEN
ALE
EA
AT89C51
Rahul Prajapati_23162171020_Batch_52
A
B
C
D
Digital Oscilloscope
Trigger
Channel A
Channel C
Horizontal
Channel B
Channel D
Level
Position
Auto
One-Shot
Cursors
Source
AC
DC
GND
OFF
Invert
A+B
C+D