Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA   Batch - 51
M&A Practical 10

Aim : **Learning advance programming using Jumps and Calls (Branch Instructions) in 8051 Microcontroller**

Learning advance programming to generate Square and Rectangle Waveforms by interfacing with 8051 Microcontroller.

Exercise : What is rectangular wave? Show the difference between rectangle and square wave. Demonstrate Rectangular waveform via Port 2 Pin 5 using same delay or design different delay for ON & OFF interfacing with 8051 microcontrollers.

Code :

```
START:
      SETB P2.5
      ACALL DELAY
      ACALL DELAY
      CLR P2.5
      ACALL DELAY
      ACALL DELAY
SJMP START
DELAY: MOV R4, #70
      DELAY2: MOV R2, #70
            HERE: DJNZ R2, HERE
            DJNZ R4, DELAY2
RET
END
```

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA   Batch - 51
M&A Practical 10

Output :