***E1910033***

***Experiment No. 2***

**Problem statement:** Write a program to selectively turn ON each LED one by one from a set of LEDs connected to Port. Initially all the LEDs will be off. Then each LED has to be serially turned ON after a delay of 500 milliseconds. Once turned ON, the LED will remain ON. After all the LEDs have been serially turned ON, they remain ON for 500 milliseconds and then, turn OFF all the LEDs for 500 milliseconds. After this, the pattern repeats itself.

**Software Tools:** Tinkercad Online Simulator

**Block Schematic:**



**Program:**

int buzzer = 9;

int i = 0;

void setup()

{

pinMode(buzzer, OUTPUT);

}

void loop() {

if(i<5)

{

digitalWrite(buzzer, HIGH);

delay(2000);

digitalWrite(buzzer, LOW);

delay(2000);

i++;

}

}

**Result:**

**Conclusion:**