

EXPERIMENT NO: 6

Roll No: _____ **Class: BE** **Division: A** **Date:** / / 2024

TITLE: Interfacing IR sensor with Arduino board and program to turn on buzzer when obstacle detected.

AIM: Interfacing of IR sensor with Arduino to control device.

Task: Write a program to Interface IR sensor with Arduino board and program to turn on buzzer when obstacle detected.

Source Code:

```
# define IR_Sensor 9
# define Buzzer 2

void setup() {
    Serial.begin(9600);
    pinMode(IR_Sensor, INPUT);
    pinMode(Buzzer, OUTPUT);
    Serial.print("IR Sensor and Buzzer Interfacing");
}

void loop() {
    int a;
    a = digitalRead(IR_Sensor);
    if(a==0){
        Serial.println("Object Detected");
        Serial.println("Buzzer ON");
        digitalWrite(Buzzer, LOW);
        delay(1000);
    }
    else{
        Serial.println("Object Not Detected");
        Serial.println("Buzzer OFF");
        digitalWrite(Buzzer, HIGH);
        delay(1000);
    }
}
```

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Output:

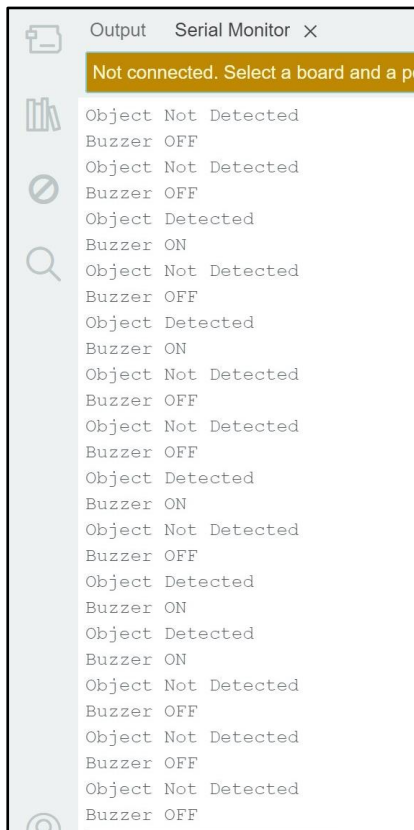


Fig 1 Serial Monitor Output

Observations:
