

# IBM Nalaiyathiran

## Assignment-1

### Question:

Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit.

### Program:

```
// C++ code
//

int LED = 8;
int PIR = 2;
void setup()
{
    Serial.begin(9600);
    pinMode(PIR,INPUT);
    pinMode(LED,OUTPUT);
}

void loop()
{
    int value = digitalRead(PIR);
    Serial.println(value);
    if(value==1){
        digitalWrite(LED,HIGH);
    }
    else{
        digitalWrite(LED,LOW);
    }
    delay(100);
}
```

## Output:

The screenshot shows the Tinkercad web interface for a project named "Fabulous Jarv". The circuit includes an Arduino Uno, a PIR sensor, a buzzer, and a green fan-shaped detection area. The PIR sensor's data table is displayed on the right side of the interface.

PIR Sensor	
Name	1
Target X	1.49
Target Y	-202.72
Target Y	-209.42

The right sidebar shows the "Components" panel with "Basic" components. The "buz" component is selected. The "Starters" panel shows various starter kits: Tone Keyboard, Tone Melody, Tone Multiple, Tone Pitch Follower, and Alarm.