

### Assignment -1

#### TinkerCAD

Assignment Date	08 September 2022
Student Name	Mr. Sharadh R
Student Roll Number	AC19UCS103
Maximum Marks	2 Marks

#### Question-1:

Make smart home with atleast 2 sensors and led, buzzer. in tinkercad

```
float temp;
int tempPin = 5;
void setup() {
    Serial.begin(9600);
}
void loop() {
    temp = analogRead(tempPin);
    //read analog volt from sensor and save to variable temp
    temp = temp * 0.48828125;
    //convert the analog volt to its temperature equivalent
    Serial.print("TEMPERATURE = ");
    Serial.print(temp-50.8); //display temperature value
    Serial.print("*C");
    Serial.println();
    delay(1000); // update sensor reading each one second
    if (temp >25) { //high temp
        digitalWrite(13, HIGH); //R
        digitalWrite(12, LOW); //B
        digitalWrite(11, LOW); //G
    }
    if (temp <20) { //low temp
        digitalWrite(13, LOW); //R
        digitalWrite(12, HIGH); //B
        digitalWrite(11, LOW); //G
    }
}
```

}

