

**Assignment -1**  
**Tinkercad**

Assignment Date	19 September 2022
Student Name	Mr.S.Asiam Basha
Student Roll Number	812419106009
Maximum Marks	2 Marks

**Question-1:**

Build a smart home in tinkercad Use atleast 2 sensors, led, buzzer in a circuit. Simulate in a single code.

**Solution:**

```
float x,y,z,temp;
void setup()
{
  pinMode(8, INPUT);
  pinMode(5, OUTPUT);
  pinMode(6, OUTPUT);
  pinMode(A5, INPUT);
  pinMode(A4, INPUT);
  Serial.begin(9600);
}
void loop()
{
  x= digitalRead(8);
  y=
  analogRead(A5);z=
  analogRead(A4);
  Serial.println(x);
  Serial.println(y);
  Serial.println(z);
  temp = (double)z /
  1024;temp = temp * 5;
  temp = temp - 0.5;
  temp = temp * 100;
  if ( (x>0) )
  {
    if ((y<550)&&(temp>30))
    {
      digitalWrite(5,
      HIGH);digitalWrite(6,
      HIGH);
    }
    else if((y<550)&&(temp<30))
```

```

{
  digitalWrite(5,
    HIGH);
  digitalWrite(6,
    LOW);
}
else if((y>550)&&(temp>30))
{
  digitalWrite(5,
    LOW);
  digitalWrite(6,
    HIGH);
}
else if((y>550)&&(temp<30))
{
  digitalWrite(5,
    LOW);
  digitalWrite(6,
    LOW);
}
}
else
{
  digitalWrite(5,
    LOW);
  digitalWrite(6,
    LOW);
}
}

```

