

### Assignment -1

Assignment Date	13 September 2022
Student Name	UMAPATHY A V
Student Roll Number	110319106046

#### Question :

Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

CODE:

```
#include<Servo.h>
```

```
Servo S;
```

```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  pinMode(13,OUTPUT);
```

```
  pinMode(7,INPUT);
```

```
  pinMode(A5,INPUT);
```

```
  S.attach(9);
```

```
}
```

```
void loop()
```

```
{
```

```
  double sensorValue = analogRead(A5);
```

```
  sensorValue = (((sensorValue/1024)*5)-0.5)*100;
```

```
  Serial.print("Temperature--->");
```

```

Serial.println(sensorValue);

int a = digitalRead(7);

//Serial.println(a);

if(a==HIGH)
{
digitalWrite(13,HIGH);
S.write(90);
delay(50);
}

else if (a==LOW)
{
digitalWrite(13,LOW);
S.write(0);
delay(50);
}

}}}OUTPUT:

```

