

ST.JOSEPHCOLLEGE OF ENGINEERING  
SRIPERAMBUDUR

DepartmentofComputerScienceandEngineering

Topic:MakeaSmartHomeinTinkercad,using2+sensors,  
Led,Buzzerinsinglecodeandcircuit.

**TEAM ID : PNT2022TMID26570**

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Code

```
int
t=2;inte=
3;
voidsetup(
)

Serial.begin(9600);pin
Mode(t,OUTPUT);pinM
ode(e,INPUT);pinMod
e (12,OUTPUT);
voidloop()

digitalWrite(t,LOW);

digitalWrite(t,HIGH);delayMicros
ec onds(10);digitalWrite(t,LOW);
float dur=pulseIn(e,HIGH);float
dis=(dur*0.0343)/2;Serial.
print("Distance is:

{
for(inti=0;i<=30000;i=i+10)
```

```
");Serial.println(dis);
```

```
if(dis>=100)//(intermsof centimeter)
```

```
digitalWrite(8,HIGH);
```

```
digitalWrite(7,HIGH);
```

```
if(dis>=100)
```

```
noTone(12);
```

```
delay(1000);
```

```
double a=
```

```
analogRead(A0);double
```

```
e
```

```
t=((a/1024)*5)-
```

```
0.5)*100;Serial.print("Temp
```

```
Value: ");Serial.print(" ");
```

```
delay(1000); //LED ON if(t>=100)
```

```
//(intermsofcelsius)
```

```
digitalWrite(8,HIGH);
```

```
digitalWrite(7,HIGH);
```

```
}if(t>=100)
```

```
{
```

```
for(int i=0;i<=30000;i=i+10)
```

```
{
```

```
tone(12,i);de
```

```
lay(1000);no
```

```
Tone(12);del
```

```
ay(1000);
```

```
if(t<100)
```

```
digitalWrite(8,LOW);
```

```
digitalWrite(7,LOW);
```

OUTPUT:-

