

ASSIGNMENT-01

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| Team Leader | Boopathi M |
| Register Number | 421819106002 |
| Date | 07/09/2022 |
| Team ID | PNT2022TMID38992 |
| Project Name | IoT Based Safety Gadget For Child Safety Monitoring |
| Maximum marks | 2 Marks |

Question-1:

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

Solution :

Source code:

```
int t=2;

int e=3;

void setup() {

Serial.begin(9600);

pinMode(t,OUTPUT);

pinMode(e,INPUT);

pinMode(12,OUTPUT);

} void loop() {

digitalWrite(t,LOW);

digitalWrite(t,HIGH);

delayMicroseconds(10);

digitalWrite(t,LOW);

float dur=pulseIn(e,HIGH);

float dis=(dur*0.0343)/2;

Serial.print("Distance is: ");

Serial.println(dis);
```

```

if(dis>=100) {
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}
if(dis>=100)
{
for(int i=0; i<=30000; i=i+10)

{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}

double a= analogRead(A0);
double t=(((a/1024)*5)-0.5)*100;

Serial.print("Temp Value: "); S
Serial.println(t);
delay(1000);
if(t>=100) {
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}
if(t>=100)
{
for(int i=0; i<=30000; i=i+10)

```

```
{  
tone(12,i);  
delay(1000);  
noTone(12);  
delay(1000);  
}  
  
}  
  
if(t<100)  
{  
digitalWrite(8,LOW);  
digitalWrite(7,LOW);  
}  
}
```