

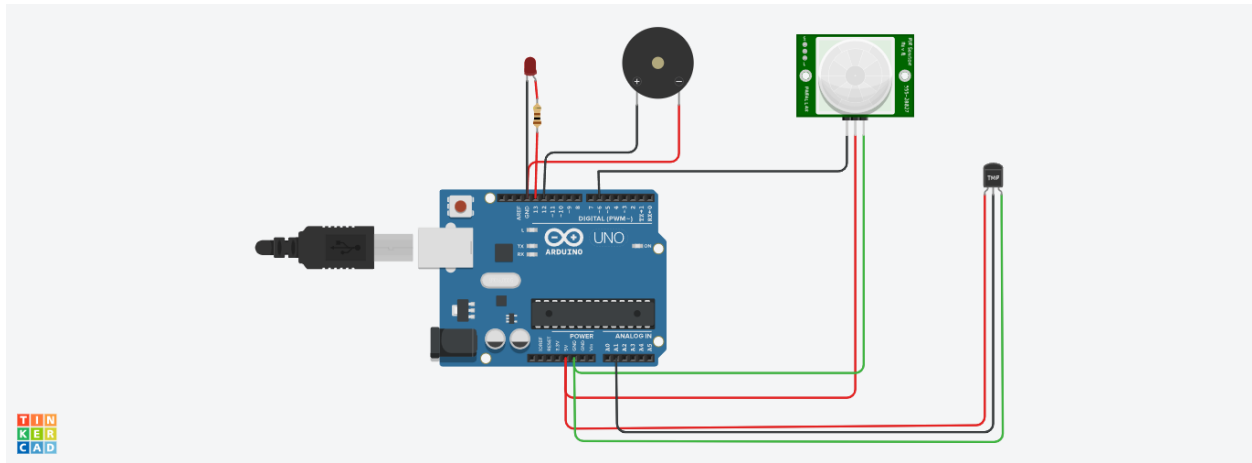
NAME	KARTHICK S
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TOPIC	<i>ASSIGNMENT ON MAKE A SMART HOME USING TINKERCAD</i>
PROJECT TITLE	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
ASSIGNMENT NO	01
MENTOR	PRAKASAM L ASP/ECE
COLLEGE NAME	P.S.V. COLLEGE OF ENGINEERING AND TECHNOLOGY

MAKE A SMART HOME

Tinkercad link:

https://www.tinkercad.com/things/00vvIIJaQmU-mighty-curcan/editel?sharecode=eRVtvg20wQPV_Ry3tj-i6dVNqyy2m-7pb0iM_zG6gOo

Circuit design:



Component Required:

Name	Quantity	Component
U1	1	Arduino Uno R3
D1	1	Red LED
PIR1	1	-52.66 , -315.7896985209941 , -337.33 PIR Sensor
PIEZO1	1	Piezo
U2	1	Temperature Sensor [TMP36]
R1	1	100 Ω Resistor

Code:

```
float temp;
void setup()
{
  pinMode (6,INPUT);
  pinMode (12,OUTPUT);
```

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

```
}
```

```
void loop()
```

```
{
```

```
if (digitalRead(6)==HIGH)
```

```
{
```

```
tone(12,523,1000);
```

```
Serial.println("Unknown detected");
```

```
{
```

```
int ledPin=13;
```

```
{
```

```
pinMode(ledPin,OUTPUT);
```

```
}
```

```
digitalWrite(ledPin,HIGH);
```

```
delay(1000);
```

```
digitalWrite(ledPin,LOW);
```

```
delay(1000);
```

```
}
```

```
}
```

```
else
```

```
{
```

```
noTone(12);
```

```
}
```

```
temp=analogRead(A1);
```

```
temp=temp*0.48828125;
```

```
if(temp>=110.84)
```

```
{
```

```
tone (12,100,2000);
```

```
Serial.print("Above 60 c Temperature...");
```

```
{  
  int ledPin=13;  
  {  
    pinMode(ledPin,OUTPUT);  
  }  
  digitalWrite(ledPin,HIGH);  
    delay(1000);  
    digitalWrite(ledPin,LOW);  
    delay(1000);  
  }  
}  
else  
{  
  noTone(12);  
}  
}/
```