

Assignment -1  
HOME AUTOMATION

Assignment Date	15 September-2022
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Student Roll Number	721419106017
Maximum Marks	2 Marks

Question-I:

ASSIGNMENT: Make a smart home with 2-3 sensors, LED, Buzzer, In single code and connections.

CODE:

```
float    x,y,z,temp;
```

```
void setup()
```

```
    pinMode(8, INPUT);
```

```
    pinMode(5, OUTPUT);
```

```
    pinMode(6, OUTPUT);
```

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

```
    pinMode(A4, INPUT);
```

```
    pinMode(12, OUTPUT);
```

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

```
    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);
```

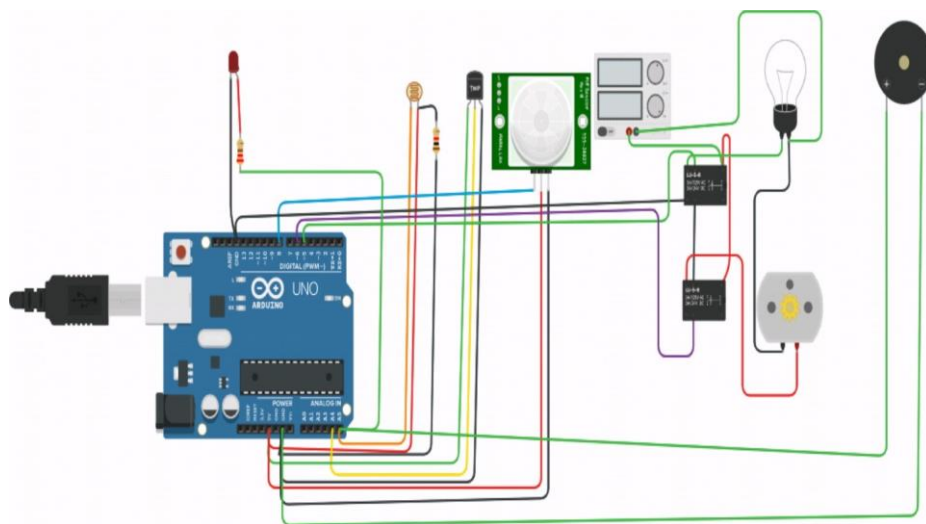
```
tone(12,30);
```

```
delay(1000);
```

```
digitalWrite(13,HIGH);
```

```
Serial.println("LED ON");
```

CIRCUIT:



K E R

REFERENCE:

<https://www.tinkercad.com/things/60JSrB48098-varalakshmisomasundaram/editel>