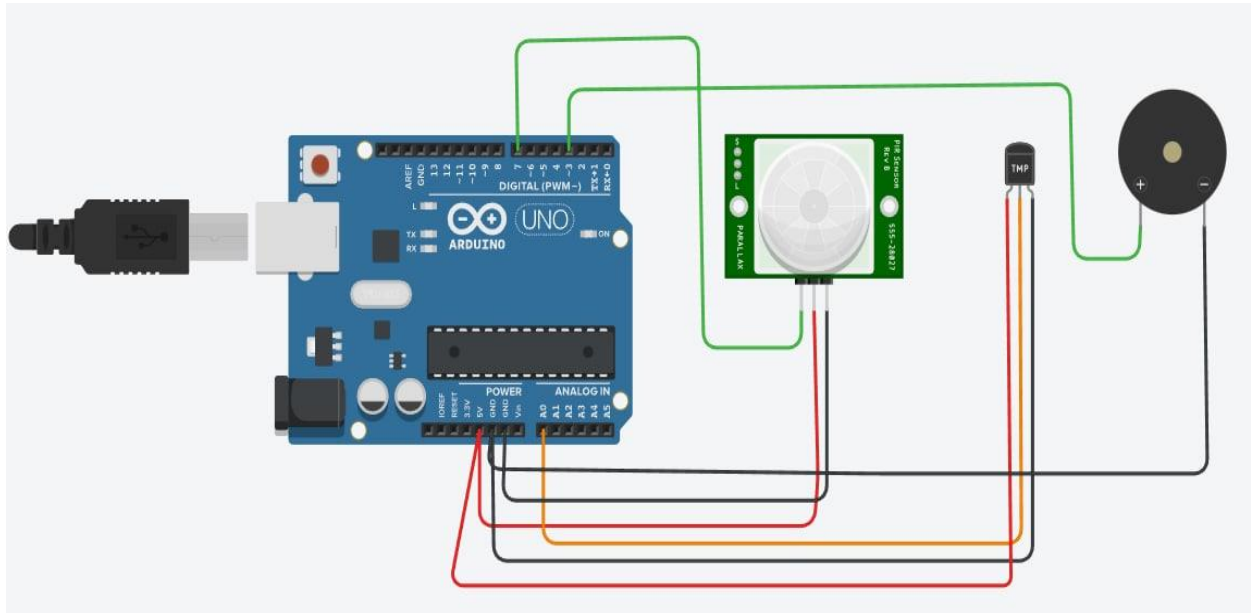


ASSIGNMENT-SMART HOME AUTOMATION SYSTEM



PROGRAM:

```
// C++ code
//
void setup()
{
  Serial.begin(9600);
  pinMode(7,INPUT);
  pinMode(3,OUTPUT);
}

void loop()
{
```

```
int frequency1=500,frequency2=1000; //PIR SENSOR CODE
```

```
int N=digitalRead(7);
```

```
Serial.print("Motion Output\n");
```

```
Serial.println(N);
```

```
delay(1000);
```

```
double temp=analogRead(A0); //TEMPERATURE SENSOR CODE
```

```
double n1=temp/1024;
```

```
double vout=n1*5;
```

```
double off=vout-0.5;
```

```
double temperature=off*100;
```

```
Serial.println(temperature);
```

```
if(temperature>=60) //condition for temperature sensor
```

```
{
```

```
    Serial.print("Temperature exceeded 60 degree celsius");
```

```
    tone(3,frequency1,1000);
```

```
}
```

```
if(N==1) //condition for PIR sensor
```

```
{
```

```
    Serial.print("Motion Detected");
```

```
    tone(3,frequency2,1000);
```

```
}}
```

TINKERCAT LINK:

<https://www.tinkercad.com/things/426QkB1ErrH-funky-crift/editel?sharecode=0bIHReusEkSBolmJLfWRbwDmjckJLuQIFYPrhY26r8o>