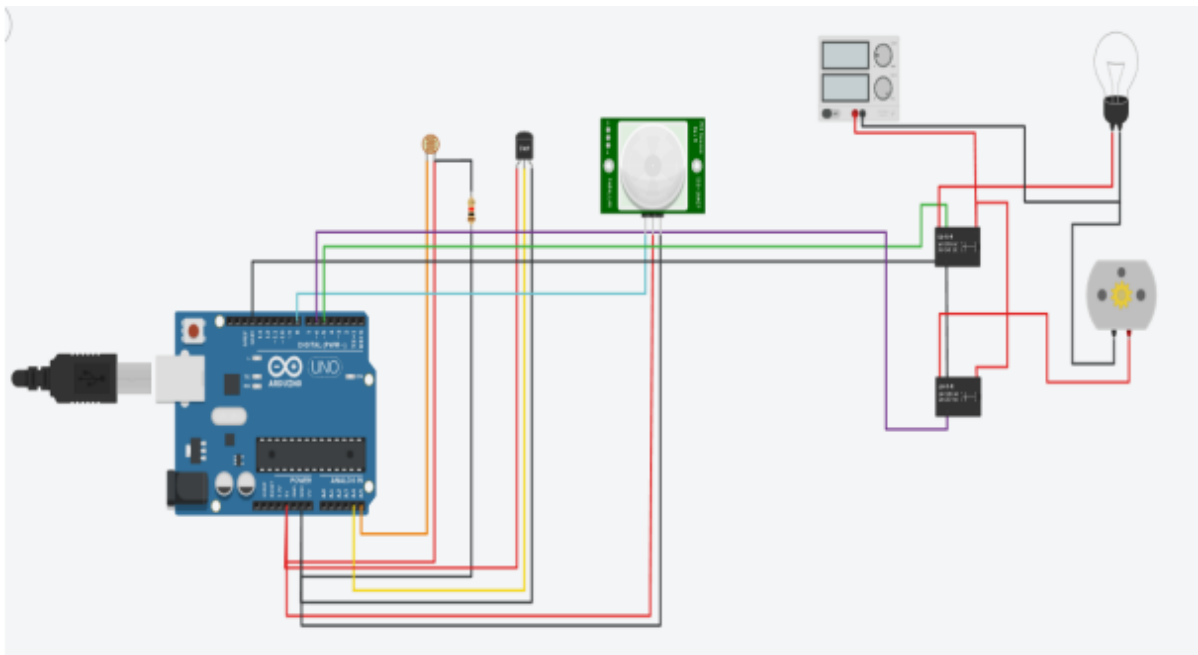


ASSIGNMENT -1

SMART HOME AUTOMATION



Coding :

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

```
void setup()
```

```
{
```

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

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

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

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

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

```
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);
```

```
}
```

```
}
```