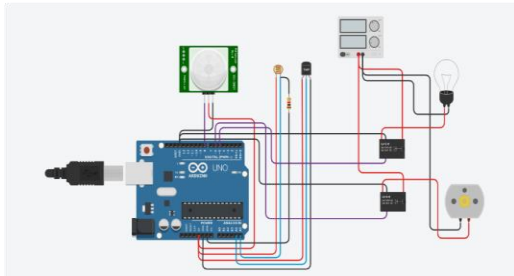


# Assignment-1

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## CIRCUIT DIAGRAM:



## PROGRAM CODE:

```
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);  
}  
}
```