## Assignment - 1

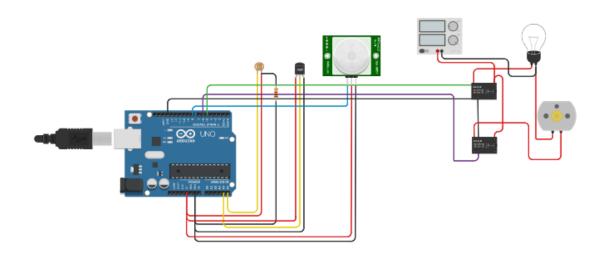
## **Python Programming**

Assignment Date	19 September 2022
Student Name	Ms.L.Rabiya
Student Roll Number	821919104020
Maximum Marks	2 Marks

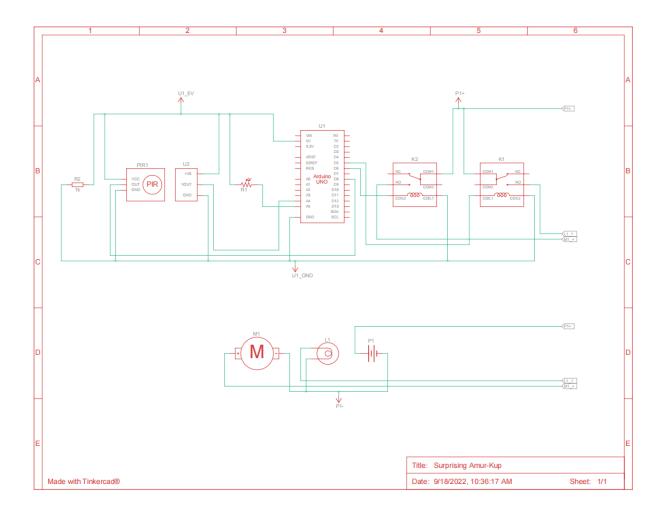
## **Question-1:**

Make a Smart Home in Tinkercad using 2+sensors , Led , Buzzer in single code and circuit. Solution:

Circuit Diagram:



Schematic View:



```
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);

Source Code:

```
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);
}
```