

Assignment -1

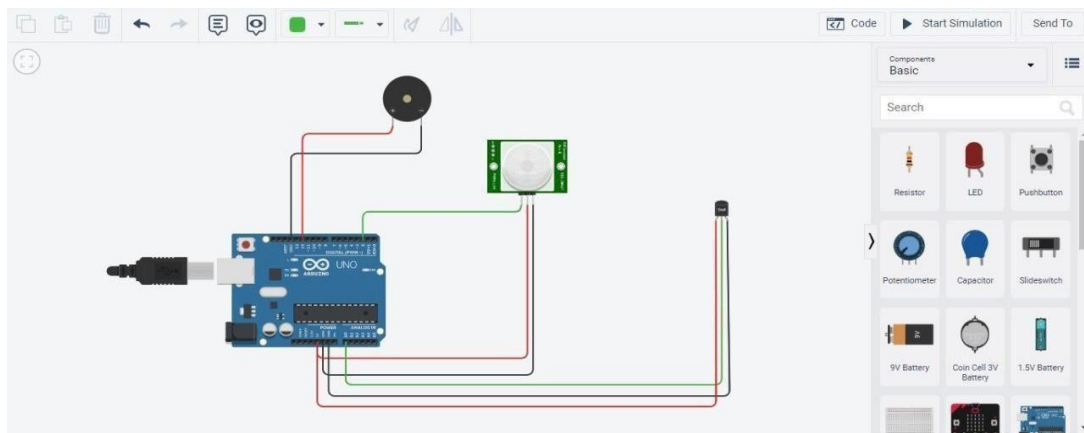
Tinkercad

Assignment Date	19 September 2022
Student Name	A. Chellamuthu
Student Roll Number	7179KCTKCTKCTKCTKCT19BEC044
Maximum Marks	2 Marks

Question-1:

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

CIRCUIT CONNECTIONS:



Code:

```
void setup()
{
  Serial.begin(9600);
  pinMode(12,OUTPUT);
  pinMode(2,INPUT); }

void loop()
{ int motion=digitalRead(2);

  double
  data=analogRead(A0);
  double n=data/1024;

  Serial.print("Converted Analog Data: ");

  Serial.println(n);

  double volt=n*5; //because connected to 5v
  Serial.print("Voltage data: ");
  Serial.println(volt);
```

```

double off=volt-0.5;
Serial.print("Offset Data: ");
Serial.println(off);

double

temperature=off*100;

Serial.print("Temperature Data: ");

Serial.println(temperature );
if(motion==1 && temperature<60)

tone(12,100);

else if(motion==0 && temperature>60)

tone(12,200);

else if(motion==1 && temperature>60)

noTone(12);

else if(motion==0 && temperature<60)

noTone(12);

}

```

Output:

