

Assignment -1

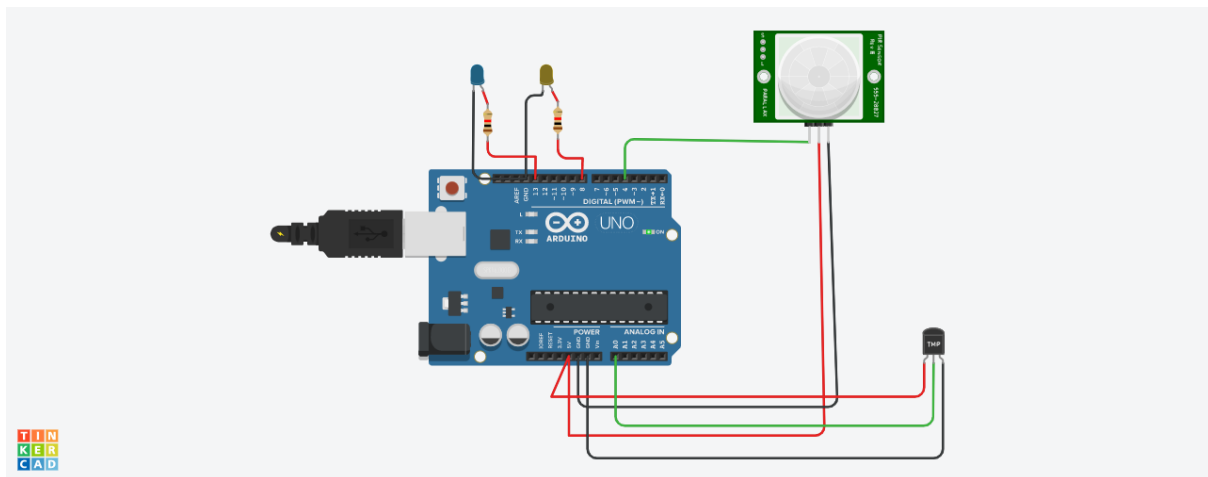
Python Programming

Assignment Date	19 September 2022
Student Name	M. VENNILA
Student Roll Number	511319106033
Maximum Marks	2 Marks

QUESTION-1:

Build a smart home using tinkercad, take any sensors (atleast 2) and use LED & Buzzer.

CIRCUIT DIAGRAM



CODE

```
void setup()
{
  Serial.begin(9600);
  pinMode(4, INPUT);
  pinMode(8, OUTPUT);
  pinMode(13, OUTPUT);
}
void loop()
{
  int p=digitalRead(4);
  Serial.println(p);
  if(p)
  {
    digitalWrite(13,1);
    Serial.println("motion detected");
  }
  delay(1000);
  double a=analogRead(A0);
  double t=((a/1024)*5)-0.5)*100;
  Serial.println(t);
  if(t>25)
  {
    digitalWrite(8,1);
    Serial.println("temperature greater than 25");
    delay(1000);
  }
}
```