**Assignment -1**

Python Programming

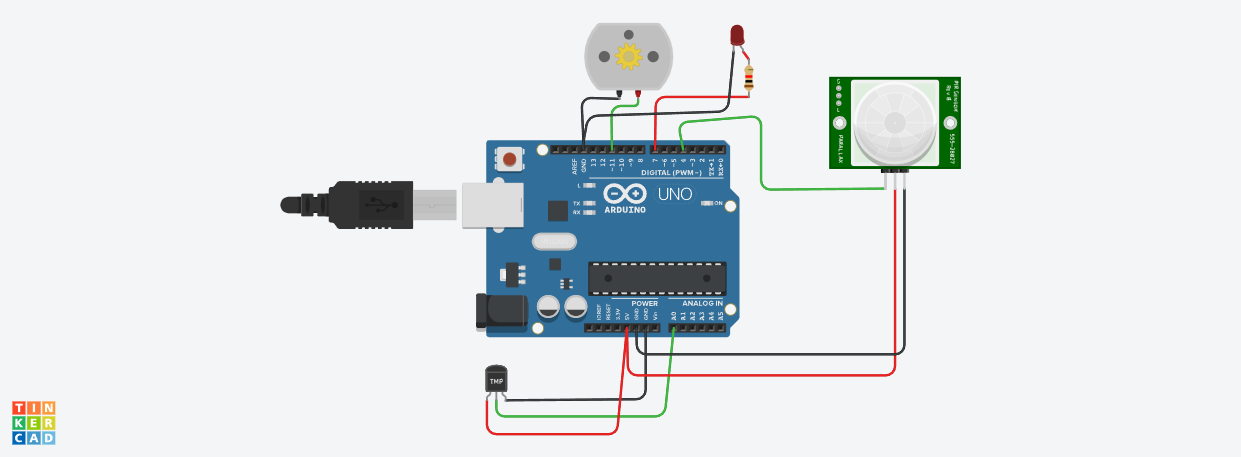
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**Question-1:**

Home automation project using Aruduino, two sensor,buzzer ,light

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| **Solution:** |
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| **Program:**  int temp = A0;  void setup() {  Serial.begin(9600);  pinMode(7,OUTPUT);  pinMode(4,INPUT);  pinMode(11,OUTPUT);    }  void loop() {  int temp\_adc\_val;  float temp\_val;  int pir=digitalRead(4);    temp\_adc\_val = analogRead(temp);  temp\_val = (temp\_adc\_val \* 4.88);  temp\_val = ((temp\_val/10)-50);  Serial.print(" Degree Celsius\n");  Serial.print(temp\_val);  if(temp\_val>=25 && pir==1)  {  digitalWrite(11,HIGH);  digitalWrite(7,HIGH);  Serial.println("fanON");  }  else  {  digitalWrite(11,LOW);  digitalWrite(7,LOW);  Serial.println("fan OFF");  }  } |  |

**Circuit Diagram:**



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