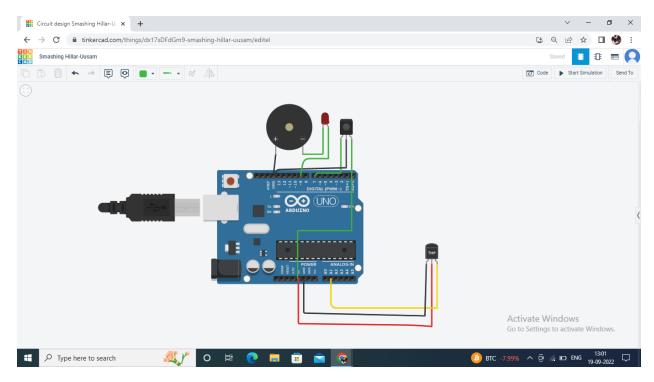<div align="center">Assignment-1</div>

## Circuit Diagram



## Code

// C++ code

//

void setup()

{

  pinMode(9,OUTPUT);

  Serial.begin(9600);

  pinMode(7,INPUT);

```
    Serial.begin(9600);

    }
void loop()

{

  digitalWrite(9,HIGH);

  Serial.println("LED ON");

  delay(1000);

  digitalWrite(9,LOW);

  Serial.println("LED OFF");

  delay(1000);

  double a= analogRead(A1);

  Serial.print("Adc Value:");

  Serial.println(a);

  double v=a/1024;

  double tvolt=v*5;

  Serial.print("temp value voltage:");

  Serial.println(tvolt);

  double o=tvolt-0.5;

  double t=o*100;

  Serial.print("Temperature is:");

  Serial.println(t);

  delay(2000);

  int m=digitalRead(2);
```

Serial.print("IRsensor detected:");

Serial.println(m);

}

## Output