CODE OF THE PROJECT THAT WILL STIMULATE OF TINKER CAD-

LINK -

www.tinkercad.com/things/dgDDwmyFdBs-automated-irrigation-system/editel

```
#include <LiquidCrystal.h>


const int LM35 = A0;
const int motor = 13;
const int LedRed = 12;
const int LedGreen = 11;

LiquidCrystal lcd(2, 3, 4, 5, 6, 7);

void setup() {
  Serial.begin(9600);
  lcd.begin(16, 2);
  lcd.print("Automated");
  lcd.setCursor(0,1);
  lcd.print("irrigation system!");
  pinMode(motor, OUTPUT);
  pinMode(LedRed, OUTPUT);
  pinMode(LedGreen, OUTPUT);
  delay(2000);
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("Temp= ");
  lcd.setCursor(0,1);
```

```
  lcd.print("WaterPump= ");
}

void loop() {

  int value = analogRead(LM35);
  float Temperature = value * 500.0 / 1023.0;
  lcd.setCursor(6,0);
  lcd.print(Temperature);
  lcd.setCursor(11,1);


  if (Temperature > 48){
    digitalWrite(motor, HIGH);
    digitalWrite(LedRed, HIGH);
    digitalWrite(LedGreen, LOW);
    lcd.print("ON ");
  }
  else {
    digitalWrite(motor, LOW);
    digitalWrite(LedRed, LOW);
    digitalWrite(LedGreen, HIGH);
    lcd.print("OFF");
  }

   delay(1000);
}
```