CODES

```
#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 Plant");
 lcd.setCursor(0,1);
 lcd.print("Watering System!");
 pinMode(motor, OUTPUT);
 pinMode(LedRed, OUTPUT);
 pinMode(LedGreen, OUTPUT);
 delay(2000);
 lcd.clear();
 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 > 50){
  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);
}
```