Sprint-1

```
#include <OneWire.h>
#include <DallasTemperature.h>
#include <SoftwareSerial.h>
#include <NewPing.h>
#define SensorPin A2
                            Analog Input 0
#define Offset 0.00
unsigned long int avgValue;
                               feedback
#define TRIGGER PIN 23 sensor.
#define ECHO PIN
                     22
#define MAX DISTANCE 200
NewPing sonar (TRIGGER PIN, ECHO PIN, MAX DISTANCE);
unsigned int pingSpeed = 50;
unsigned long pingTimer;
SoftwareSerial mySerial(7, 8);
OneWire oneWire (ONE WIRE BUS);
DallasTemperature sensors(&oneWire);
#include <LiquidCrystal.h>
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
//const int pingPin =22;
int sensorPin = A0;
int blueled = 13;
int redled = 24;
int greenled = 25;
int tempblueled = 32;
int tempredled = 33;
int tempgreenled = 34;
int levblueled = 35;
int levredled = 36;
int levgreenled = 37;
int turbblueled = 38;
int turbredled = 39;
int turbgreenled = 40;
int buzzer = 31;
float phValue;
float temperatureC;
long duration, cm;
void setup(void)
  // start serial port
  Serial.begin(9600);
  pingTimer = millis();
  sensors.begin();
  lcd.begin(16, 2);.
```

```
lcd.clear();
  pinMode(blueled, OUTPUT);
  pinMode(redled, OUTPUT);
  pinMode(greenled, OUTPUT);
  pinMode(tempblueled, OUTPUT);
  pinMode(tempredled, OUTPUT);
  pinMode(tempgreenled, OUTPUT);
  pinMode(levblueled, OUTPUT);
  pinMode(levredled, OUTPUT);
  pinMode(levgreenled, OUTPUT);
  pinMode(turbblueled, OUTPUT);
  pinMode(turbredled, OUTPUT);
  pinMode(turbgreenled, OUTPUT);
  pinMode(buzzer, OUTPUT);
    digitalWrite(buzzer, LOW);
  //initialization();
void loop() {
  sensors.requestTemperatures
  Serial.println(sensors.getTempCByIndex(0));
    int reading = analogRead(sensorPin);
  float voltage = reading * 5.0;
  voltage /= 1024.0;
  float temperatureC = (voltage - 0.5) * 100;
  PH();
    digitalWrite(blueled, LOW);
  digitalWrite(redled, LOW);
  digitalWrite(greenled, LOW);
  temperature ();
  digitalWrite(tempblueled, LOW);
  digitalWrite(tempredled, LOW);
  digitalWrite(tempgreenled, LOW);
  Water level();
      digitalWrite(levblueled, LOW);
  digitalWrite(levredled, LOW);
  digitalWrite(levgreenled, LOW);
  turbidity();
   digitalWrite(turbblueled, LOW);
  digitalWrite(turbredled, LOW);
  digitalWrite(turbgreenled, LOW);
  send sms();
  delay(4000);
  send sms1();
    digitalWrite(greenled, LOW);
  digitalWrite(tempgreenled, LOW);
  digitalWrite(levgreenled, LOW);
  digitalWrite(turbgreenled, LOW);
  delay(8000);
```