Code for LED

```
void setup() {//Setting up the Arduino
Serial.begin(9600);
{
  pinMode(2,OUTPUT);//Setting up LED as an output pin
  pinMode(12,OUTPUT);//Setting up LED as an output pin
  pinMode(13,OUTPUT);//Setting up LED as an output pin
}}
void loop() //Code written between "{}" repeats itself for ever
{{
digitalWrite(2,LOW); //This statement sets the LED Low
Serial.println("Led off");  //This statement prints values stored in input val on the serial   monitor
delay(1000);//This statement makes the Adriano sleep for 1000ms
digitalWrite(12,LOW);
Serial.println("Led off");//This statement prints values stored in input_val on the serial        monitor
delay(1000);
digitalWrite(13,LOW);
Serial.println("Led off");
delay(1000);
}}
```

Code for piezo buzzer

```
Constint buzzer=2;//This statement gives name buzzer to pin3
void setup(){
Serial.begin(9600);
  {
pinMode(buzzer,OUTPUT);  //This statement sets buzzer pin as an output pin
}}
void loop() {
digitalWrite(buzzer,LOW);// This statement makes buzzer on.
delay(200);    }                    //some delay
```

Define the variables

```
int sensorPin=A1;
int greenpin=8;
int yellowpin=7;
int redpin=6;
int sensorValue=0;                    //to store the value coming from the sensor
int buzzpin=A0;                        //for buzzer
```

Defining the pin number to specific variable

```
void setup() {
  Serial.begin(9600);
  pinMode(greenpin,OUTPUT);
  pinMode(yellowpin,OUTPUT);
  pinMode(redpin,OUTPUT);
  pinMode(buzzpin,OUTPUT);
}
```

Actual running code using loops

```
void loop() {
   sensorValue = analogRead(sensorPin);            // read the value from the sensor
  // send the message about water level to serial monitor

  if (sensorValue <= 0) {
    Serial.println("Water level: 0mm - Empty!");
  }
  else if (sensorValue > 1 && sensorValue <= 330) {
    Serial.println("Water lvl: 20mm");
    digitalWrite(greenpin, HIGH);                    // turn the green LED on
  }
  else if (sensorValue > 331 && sensorValue <= 360) {
    Serial.println("Water lvl: 50mm");
  }
  else if (sensorValue > 361 && sensorValue <= 385 ) {
    Serial.println("Water lvl: 65mm");
    digitalWrite(yellowpin, HIGH);                   // turn the yellow LED on
    }
    else if (sensorValue > 386 && sensorValue <= 399 ) {
    Serial.println("Water lvl: 80mm ");
  }

  else if (sensorValue > 400 && sensorValue <= 449 ) {
    Serial.println("Water lvl: 91-129mm tank is going to full..");
  }
  else if (sensorValue > 450) {
    digitalWrite(buzzpin, HIGH);                     // turn the piezo buzzer on
    digitalWrite(redpin, HIGH);                      // turn the red LED on
    Serial.println("Water lvl: 100mm  Alarm! Alarm!turn off....");
```

```
  }
  delay(1000);                          // delay 1 second
  digitalWrite(greenpin, LOW);          // turn the green LED off
  digitalWrite(yellowpin, LOW);         // turn the blue LED off
  digitalWrite(redpin, LOW);            // turn the red LED off
  digitalWrite(buzzpin, LOW);           // turn the speakerPin off - reset

}
```