ASSIGNMENT- 1

|  |  |
| --- | --- |
| Date | 16 September 2022 |
| Team ID | PNT2022TMID14744 |
| Project Name | Project -Real-Time River Water Quality Monitoring and Control System |
| Maximum Marks | 2 Marks |

const int echoPin=2, triggerPin=3, red=4, green=5, blue=6; const int buzz = 7;

int pulseValue; float distance;

void setup( ) { pinMode(echoPin, INPUT); pinMode(triggerPin, OUTPUT); pinMode(red, OUTPUT); pinMode(green, OUTPUT); pinMode(blue, OUTPUT); pinMode(buzz, OUTPUT); Serial.begin(9600);

}

void loop( )

{

digitalWrite(triggerPin, LOW); delayMicroseconds(5); digitalWrite(triggerPin, HIGH); delayMicroseconds(10); pulseValue=pulseIn(echoPin, HIGH); distance=(pulseValue\*0.0001657\*39.37);

if (distance<=5)

{

digitalWrite(red, HIGH); digitalWrite(green, LOW); digitalWrite(blue, LOW); tone(buzz, 500);

}

else if (distance<=10)

{

digitalWrite(green, HIGH); digitalWrite(red, LOW); digitalWrite(blue, LOW); tone(buzz, 1000);

}

else

{

digitalWrite(blue, HIGH);

digitalWrite(red, LOW); digitalWrite(green, LOW); tone(buzz, 1500);

}

Serial.print(distance); Serial.println(" inch/es"); delay(500);

}

**Output:**

