**Assignment -1**

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| Assignment Date | 19 September 2022 |
| Student Name | PREETHI R |
| Student Roll Number | 311119205038 |
| Maximum Marks | 2 Marks |

**Question-1:**

Build a smart home in tinkler cat, use atlaest 2 sensors , led buzzer in a circuit , simulate in a single code

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**Solution:**

int trigpin=4;

int echopin=3;

int buzzerpin=10;

int time;

int distance;

void setup()

{

pinMode(8,OUTPUT);

pinMode(3,INPUT);

pinMode(4,OUTPUT);

pinMode(10,OUTPUT);

Serial.begin(9600);

}

void loop()

{

digitalWrite(trigpin,HIGH);

delayMicroseconds(1000);

digitalWrite(trigpin,LOW);

delayMicroseconds(1000);

time=pulseIn(echopin,HIGH);

distance=(time\*0.034)/2;

if(distance<=10)

{

Serial.print("Distance=");

Serial.println(distance);

digitalWrite(8,HIGH);

delay(1000);

digitalWrite(10,LOW);

delay(1000);

}

else

{

Serial.print("Distance=");

Serial.println(distance);

digitalWrite(8,LOW);

delay(1000);

digitalWrite(10,HIGH);

delay(1000);

}

}

