SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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ASSIGNMENT-1

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SMART HOME AUTOMATION-DOOR BUZZER

CODE:

int trig=2; int echo=3; int buzzer=10; int time; int distance; void setup()

{

Serial.begin(9600); pinMode(trig,OUTPUT); pinMode(echo,INPUT); pinMode(buzzer,OUTPUT);

}

void loop()

{

digitalWrite(trig,HIGH);

delayMicroseconds(10); digitalWrite(trig,LOW); time=pulseIn (echo,HIGH); distance=(time\*0.034)/2; if(distance<=10)

{

Serial.println("DOOR OPEN");

Serial.print("distance:"); Serial.println(distance); digitalWrite(buzzer,HIGH); delay(500);

}

else

{

Serial.println("DOOR CLOSED");

Serial.print("distance:"); Serial.println(distance); digitalWrite(buzzer,LOW); delay(500);

}

}

