Assignment -1

Home Automation

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| Assignment Date | 19 September 2022 |
| Student Name | P.Sri Meenakshi |
| Student Roll Number | 910619104085 |
| Maximum Marks | 2 Marks |

Question-1:

Make a home automation with tinkercad, add 2-3 sensors led buzzers and make a common code and circuit. Multiple detections and alarms should be given.

Solution: float x,y,z,temp; void setup()

{

pinMode(8, INPUT); pinMode(5, OUTPUT); pinMode(6, OUTPUT); pinMode(A5, INPUT); pinMode(A4, INPUT);

Serial.begin(9600);

}

void loop()

{

x= digitalRead(8); y= analogRead(A5); z= analogRead(A4); Serial.println(x);

Serial.println(y); Serial.println(z); temp = (double)z / 1024; temp = temp \* 5; temp = temp - 0.5; temp = temp \* 100; if ( (x>0) )

{

if ((y<550)&&(temp>30))

{

digitalWrite(5, HIGH); digitalWrite(6, HIGH);

}

else if((y<550)&&(temp<30))

{

digitalWrite(5, HIGH); digitalWrite(6, LOW);

}

else if((y>550)&&(temp>30))

{

digitalWrite(5, LOW); digitalWrite(6, HIGH);

}

else if((y>550)&&(temp<30))

{

digitalWrite(5, LOW); digitalWrite(6, LOW);

}

}

else

{

digitalWrite(5, LOW); digitalWrite(6, LOW);

}

}

