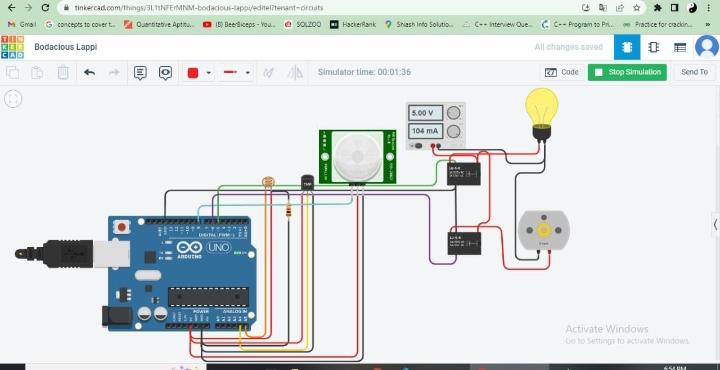
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| --- | --- |
| Assignment | 1 |
| Student Name | DEEPTHI. H |
| Student Roll Number | 211419104052 |
| Maximum Marks | 2 Marks |

Assignment-1

**Question-1:**

Build a smart home in tinkercad with 2 sensors, an Led, buzzer .

Solution:



Program:

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);

}

}

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