IBM ASSIGNMENT-I

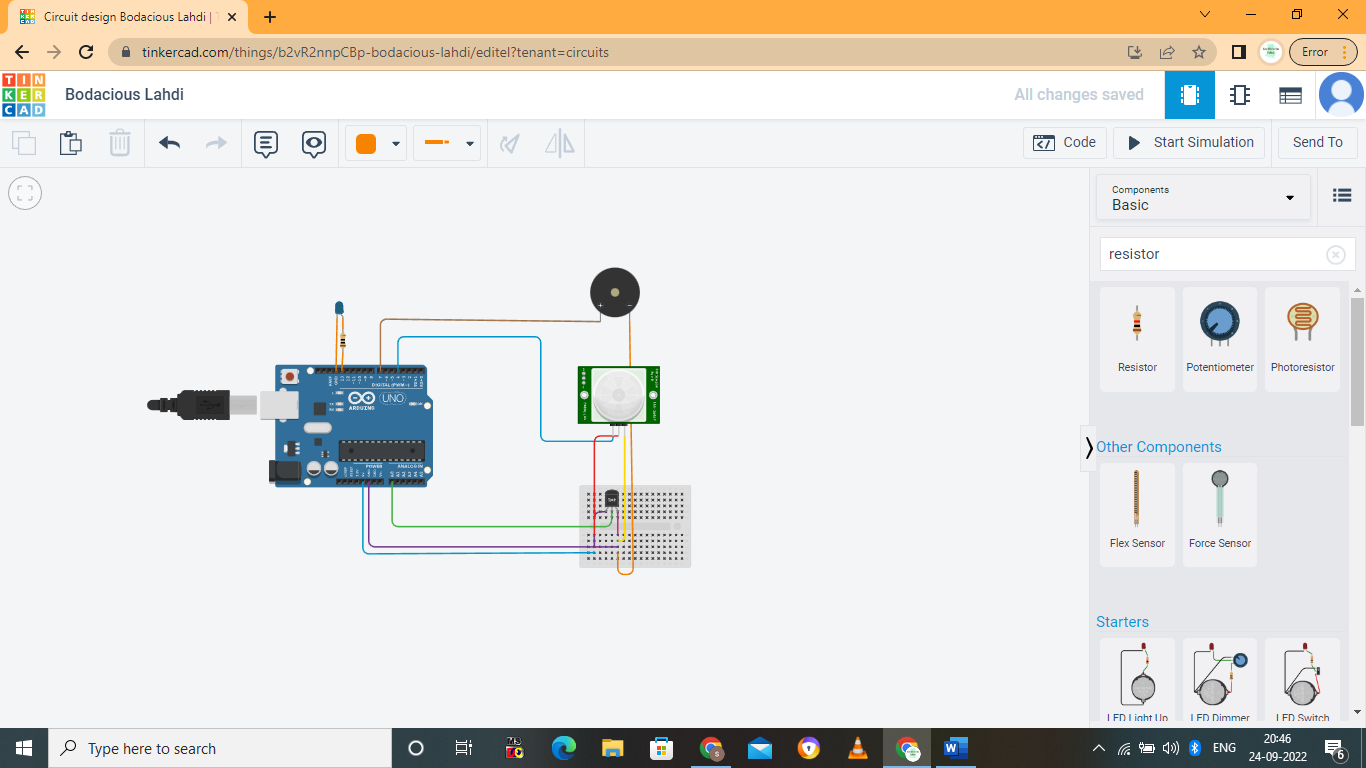
(Smart Railways)

Submitted by

S.Shruthika Shabnam

91761914036

CIRCUIT CONNECTION MADE



CODE

float vout,vout1,temp;

int motion=0;

void setup(){

pinMode(A0,INPUT);

pinMode(4,INPUT);

pinMode(7,OUTPUT);

pinMode(13,OUTPUT);

Serial.begin(9600);

}

void loop(){

vout=analogRead(A0);

vout1=(vout/1023)\*5000;

temp=(vout1-500)/10;

motion=digitalRead(4);

Serial.print("Current Temperature: ");

Serial.print(temp);

Serial.println();

if(temp>60){

digitalWrite(7,HIGH);

digitalWrite(13,HIGH);

}

else{

digitalWrite(7,LOW);

digitalWrite(13,LOW);

}

if(motion == HIGH){

digitalWrite(7,HIGH);

digitalWrite(13,HIGH);

Serial.println("Motion is detected");

}

else{

digitalWrite(7,LOW);

digitalWrite(13,LOW);

Serial.println("Motion is not detected");

}

delay(1000);

}