

IBM ASSIGNMENT-I

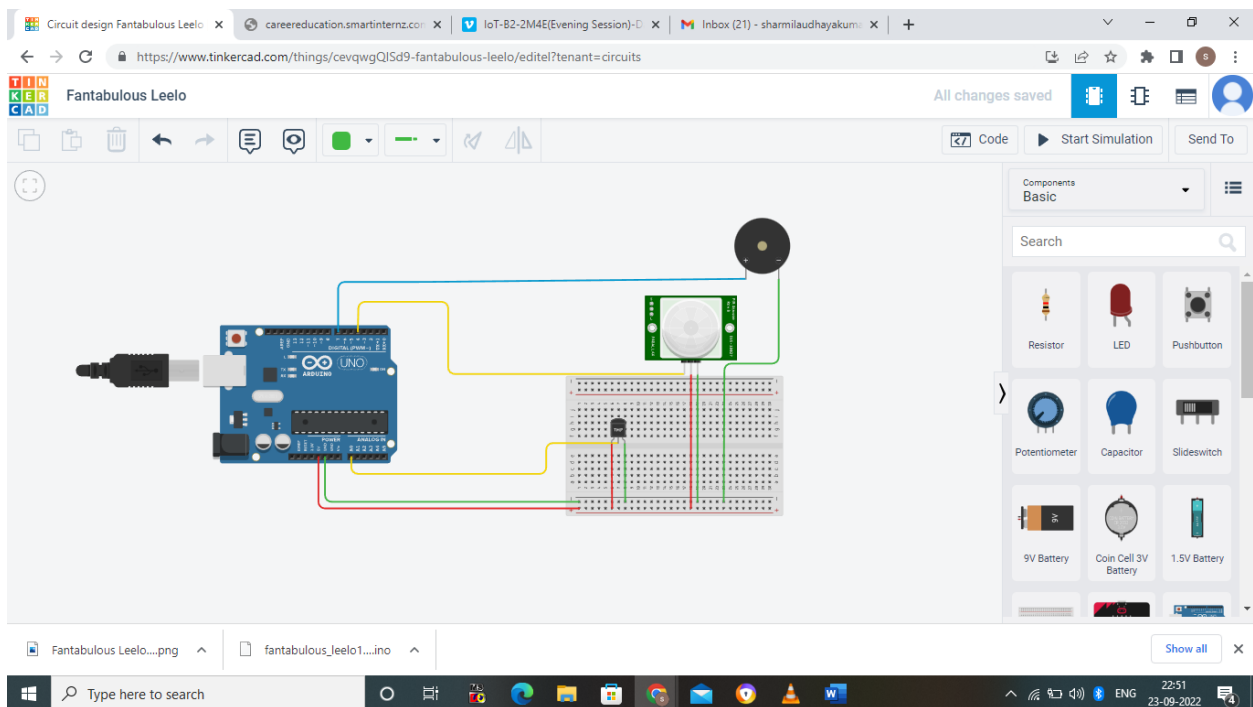
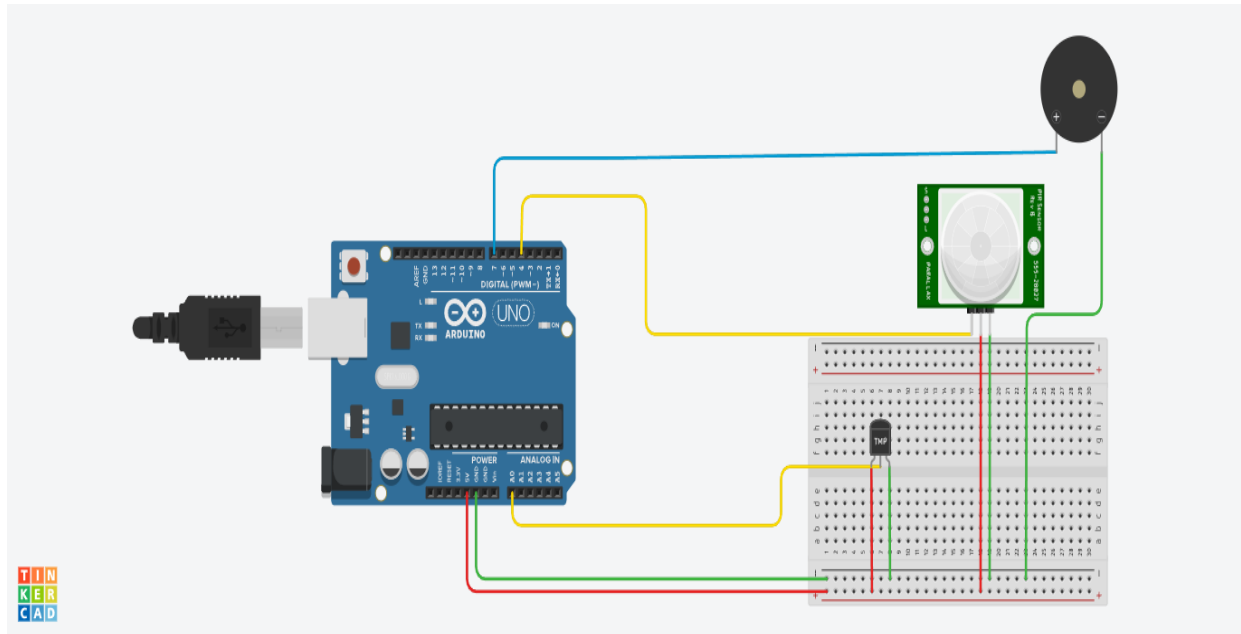
(Personal Assistance for Seniors who are Self-Reliant)

Submitted by

U.Sharmila

91761915034

CIRCUIT CONNECTION MADE



OUTPUT RECEIVED

Circuit design Fantabulous Leelo x careereducation.smartinternz.co x IoT-B2-2M4E(Evening Session)-D x Inbox (21) - sharmilaudhayakum x +

https://www.tinkercad.com/things/cevqwgQISd9-fantabulous-leelo/edit?tenant=circuits

Fantabulous Leelo All changes saved

Simulator time: 00:00:03

Code Stop Simulation Send To

1 (Arduino Uno R3)

```
22 if(temp>60){
23   digitalWrite(7,HIGH);
24 }
25 else{
26   digitalWrite(7,LOW);
27 }
28 if(motion == HIGH){
29   digitalWrite(7,HIGH);
30   Serial.println("Motion is detected");
31 }
32 else{
33   digitalWrite(7,LOW);
34   Serial.println("Motion is not detected");
35 }
36 delay(1000);
37 }
```

Serial Monitor

Current Temperature: 24.78
Motion is not detected
Current Temperature: 24.78
Motion is not detected
Current Temperature: 24.78
Motion is not detected
Current Temp

Send Clear

Fantabulous Leelo....png fantabulous_leelo1....ino Show all x

Type here to search

Circuit design Fantabulous Leelo x careereducation.smartinternz.co x IoT-B2-2M4E(Evening Session)-D x Inbox (21) - sharmilaudhayakum x +

https://www.tinkercad.com/things/cevqwgQISd9-fantabulous-leelo/edit?tenant=circuits

Fantabulous Leelo All changes saved

Simulator time: 00:00:14

Code Stop Simulation Send To

1 (Arduino Uno R3)

```
22 if(temp>60){
23   digitalWrite(7,HIGH);
24 }
25 else{
26   digitalWrite(7,LOW);
27 }
28 if(motion == HIGH){
29   digitalWrite(7,HIGH);
30   Serial.println("Motion is detected");
31 }
32 else{
33   digitalWrite(7,LOW);
34   Serial.println("Motion is not detected");
35 }
36 delay(1000);
37 }
```

Serial Monitor

Current Temperature: 81.96
Motion is not detected
Current Temperature: 81.96
Motion is not detected
Current Temperature: 81.96
Motion is not detected
Current Temperature: 81.96
Motion is not detected

Send Clear

Fantabulous Leelo....png fantabulous_leelo1....ino Show all x

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Circuit design Fantabulous Leelo x careereducation.smartinternz.co x IoT-B2-2M4E(Evening Session)-D x Inbox (21) - sharmilaudhayakum x +

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Serial Monitor

Current Temperature: 81.96
Motion is not detected
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Motion is not detected

Send Clear

Fantabulous Leelo...png fantabulous_leelo1...ino

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Circuit design Fantabulous Le x careereducation.smartinternz.co x IoT-B2-2M4E(Evening Session)-D x Inbox (21) - sharmilaudhayakum x +

https://www.tinkercad.com/things/cevqwgQISd9-fantabulous-leelo/edit?tenant=circuits

Fantabulous Leelo All changes saved

Simulator time: 00:00:40.237

Code Stop Simulation Send To

1 (Arduino Uno R3)

22 if(temp>60){
23 digitalWrite(7,HIGH);
24 }
25 else{
26 digitalWrite(7,LOW);
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32 else{
33 digitalWrite(7,LOW);
34 Serial.println("Motion is not detected");
35 }
36 delay(1000);
37 }

Serial Monitor

Current Temperature: 81.96
Motion is not detected
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Motion is not detected
Current Temperature: 81.96
Motion is not detected
Current Temperature: 81.96
Motion is detected

Send Clear

Fantabulous Leelo...png fantabulous_leelo1...ino

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CODE

```
float vout,vout1,temp;
int motion=0;
void setup(){
  pinMode(A0,INPUT);
  pinMode(4,INPUT);
  pinMode(7,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);
  else
    digitalWrite(7,LOW);
  if(motion == HIGH){
    digitalWrite(7,HIGH);
    Serial.println("Motion is detected");
  }
  else{
    digitalWrite(7,LOW);
    Serial.println("Motion is not detected");
  }
  delay(1000);
}
```