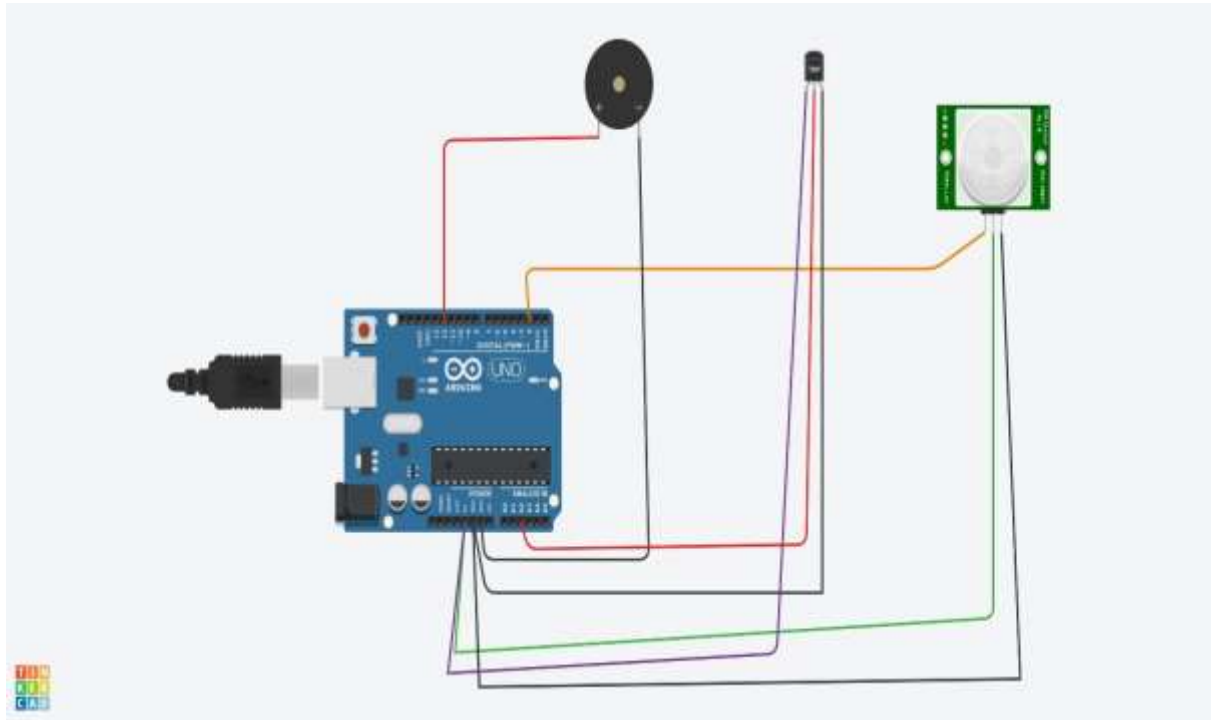


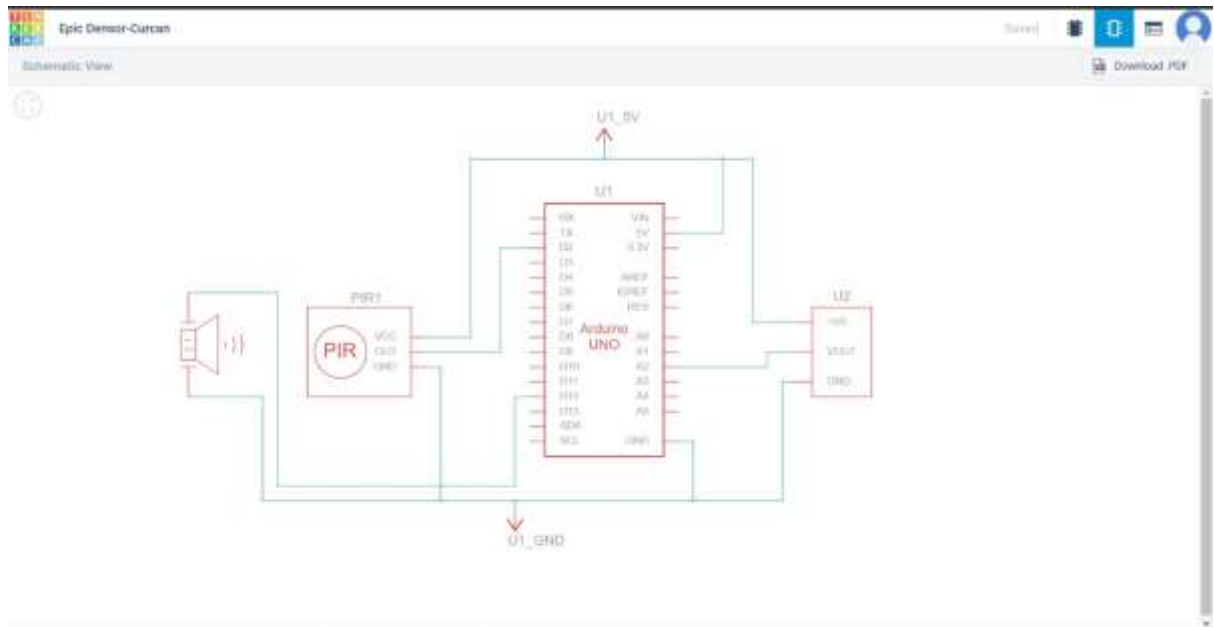
# **IBM ASSIGNMENT**

**CREATE CIRCUIT WITH PIEZO ALARM,PIR  
SENSOR,TEMPERATURE SENSOR:**

## CIRCUIT DIAGRAM:



## SCHEMATIC DIAGRAM:



## Source code:

```
// C++ code
//
void setup()
{
    Serial.begin(9600);
    pinMode(2, INPUT);
    pinMode(12, OUTPUT);
}

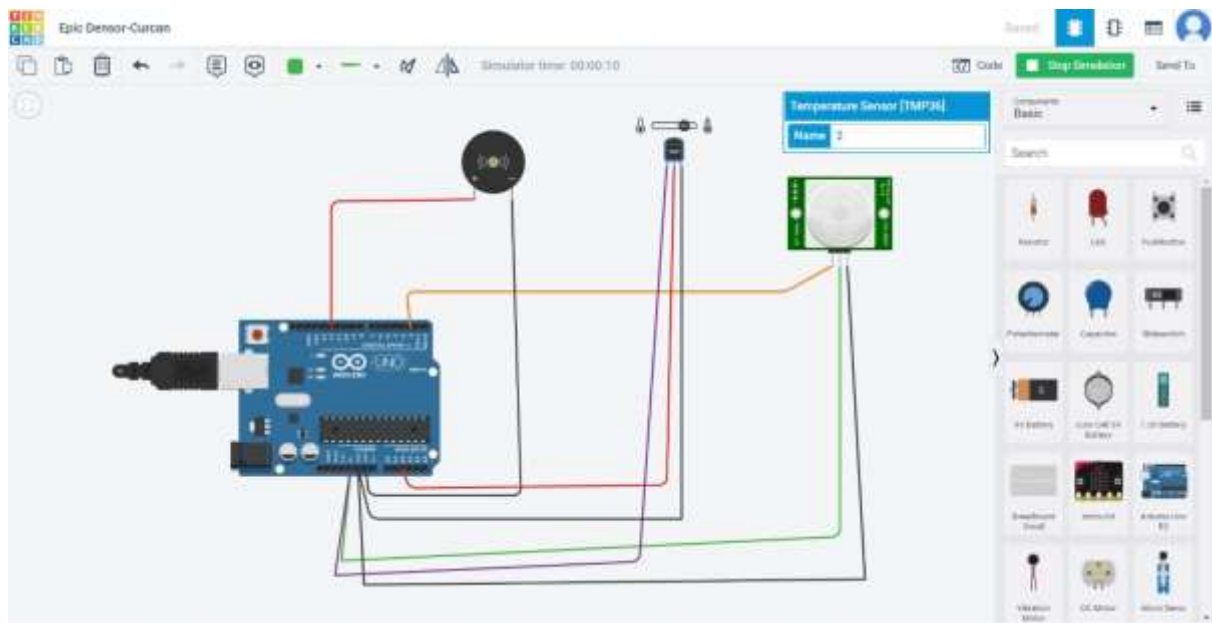
void loop() {
    int
    motion=digitalRead(2);
    if(motion==1)
    {
        Serial.println("Motion is Detected !");
        tone(12,10);    delay(1000);
        noTone(12);    delay(3000);
    }
    else
    {
        Serial.println("No Motion!!!");    delay(1000);
    }
    double data=analogRead(A2);
    double n=data/1024;    double
    voltage=n*5;    double
```

```

offsetvol=voltage-0.5; double
temp=offsetvol*100;
if(temp>60)
{
    Serial.println("Temperature higher than 60 degrees !!");
    Serial.println(temp); tone(12,10); delay(1000);
    noTone(12); delay(3000);
}
else
{
    Serial.println("Temperature lesser than 60 degrees !!");
    Serial.println(temp); delay(1000);
} }

```

## Temp sensor:



# PIR sensor:

