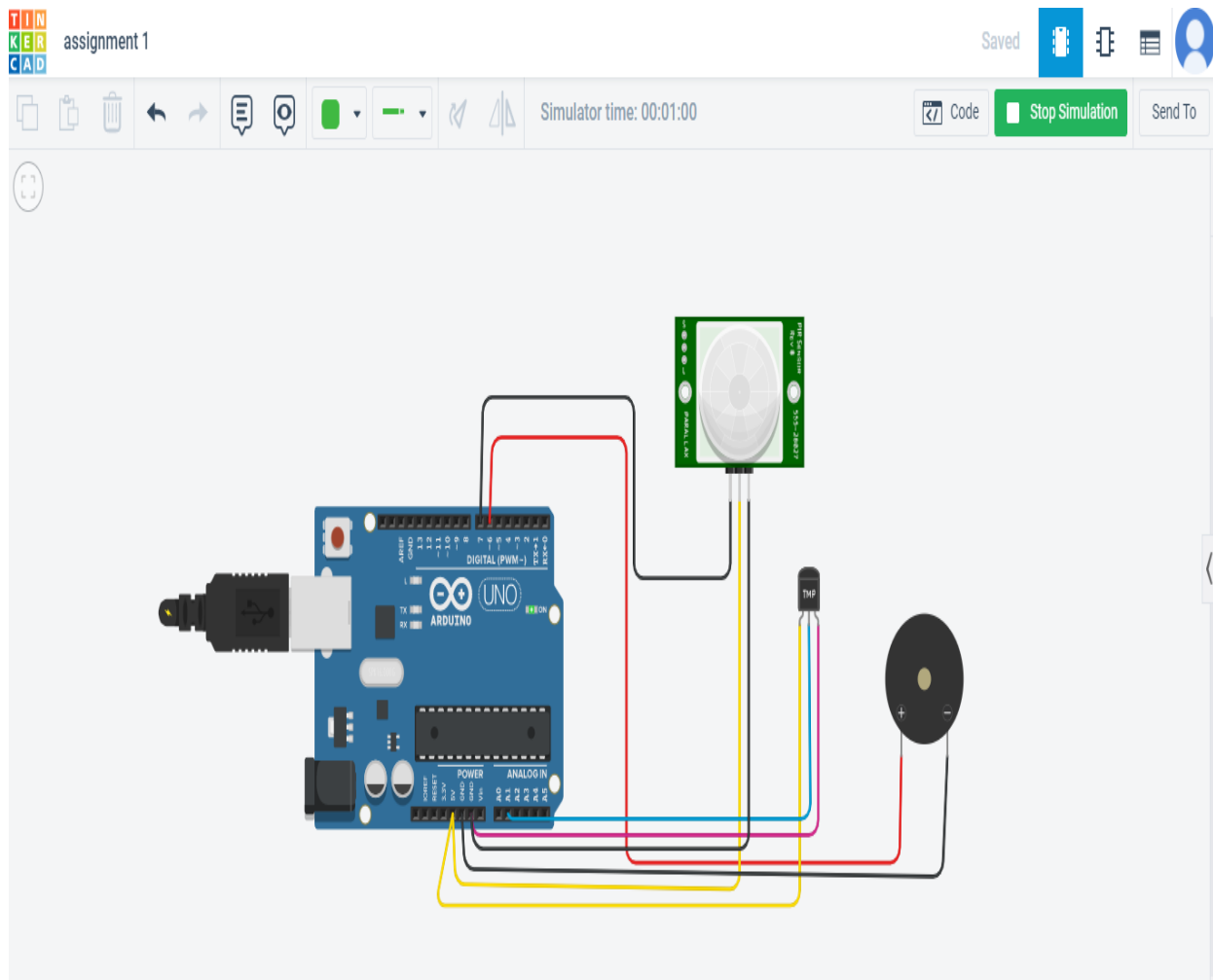


# IBM ASSESMENT



## PROGRAM:

```
void setup()
{
  Serial.begin(9600);
  pinMode(7,INPUT);
  pinMode(6,OUTPUT);
}

void loop()
{
  int frequency1=500,frequency2=1000; //PIR SENSOR CODE
  int N=digitalRead(7);
  Serial.print("Motion Output");
  Serial.println(N);
  delay(1000);

  double temp=analogRead(A1); //TEMPERATURE SENSOR
  CODE
  double n1=temp/1024;
  double vout=n1*5;
  double off=vout-0.5;
  double temperature=off*100;
```

```
Serial.println(temperature);
```

```
if(temperature>=60)  //condition for temperature sensor  
{  
  Serial.print("Temperature exceeded 60 degree celsius");  
  tone(6,frequency1,1000);  
}
```

```
if(N==1)  //condition for PIR sensor  
{  
  Serial.print("Motion Detected");  
  tone(6,frequency2,1000);  
}
```

```
}
```

# SERIAL MONITOR OUTPUT:

