# ASSIGNMENT-1

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**TEAM ID:** PNT2022TMID15088

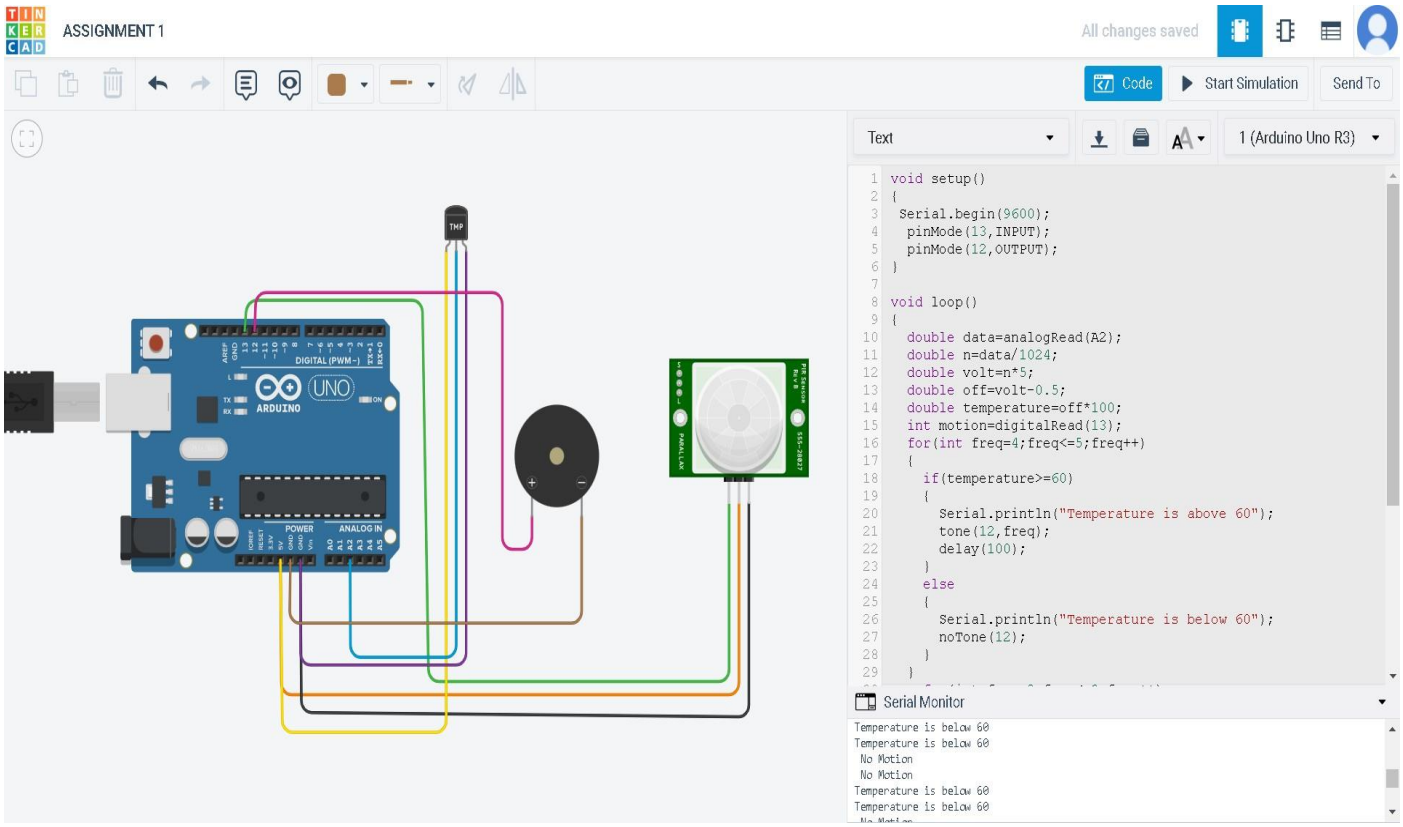
**MAXIMUM MARKS:** 2 Marks

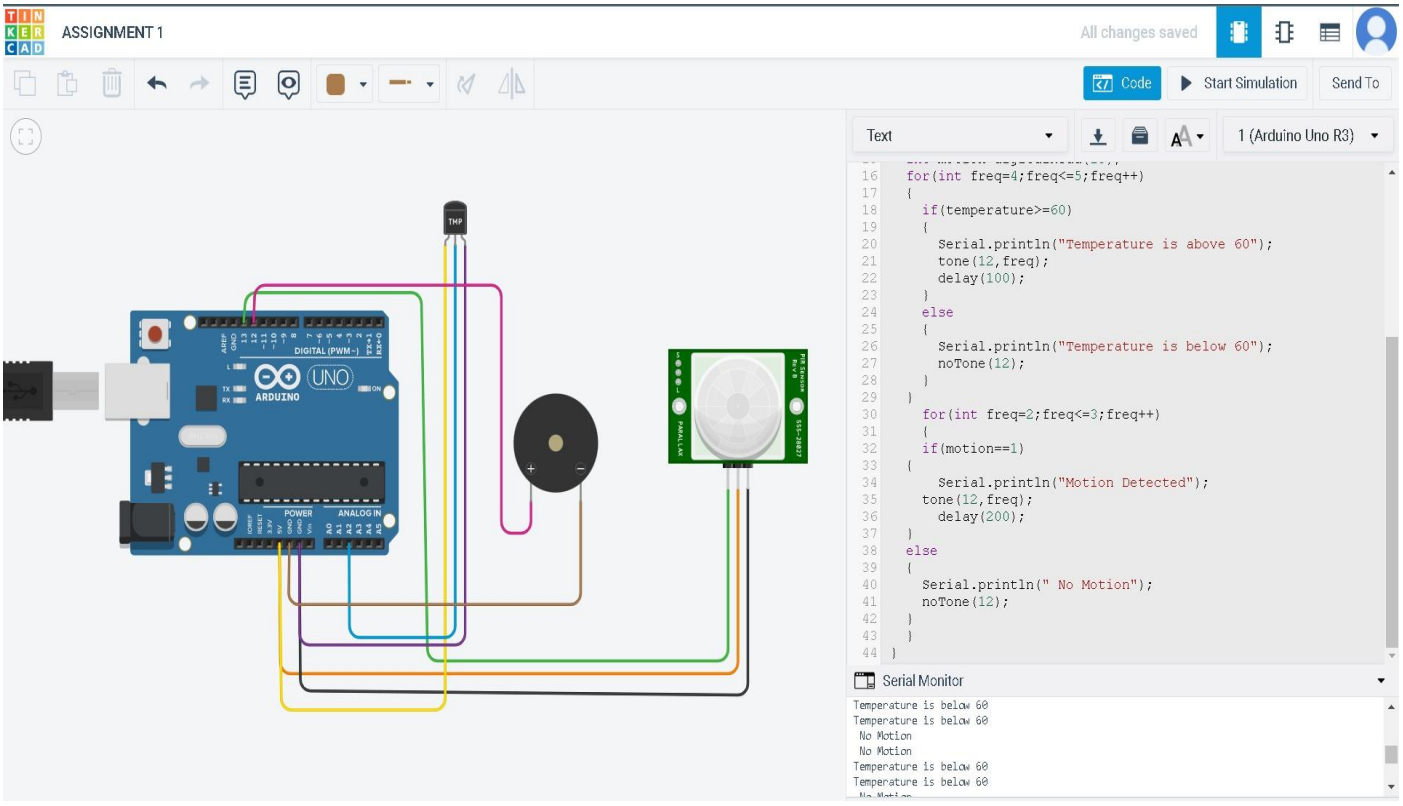
**QUESTION :** Using TinkerCad, build a circuit with temperature sensor such that if the temperature is above 60 Celsius, the buzzer rings.

**PROGRAM:**

```
void setup() {
Serial.begin(9600);
pinMode(13,INPUT);
pinMode(12,OUTPUT);
}
void loop() {
double data=analogRead(A2);
double n=data/1024;
double volt=n*5;
double off=volt-0.5;
double temperature=off*100;
int motion=digitalRead(13);
for(int freq=4;freq<=5;freq++) {
if(temperature>=60) {
Serial.println("Temperature is above 60");
tone(12,freq);
delay(100);
}
else {
Serial.println("Temperature is below 60");
noTone(12);
}
}
for(int freq=2;freq<=3;freq++) {
if(motion==1) {
Serial.println("Motion Detected");
tone(12,freq);
delay(200);
}
else {
Serial.println(" No Motion");
noTone(12);
}
}
}
```

**OUTPUT:**

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