

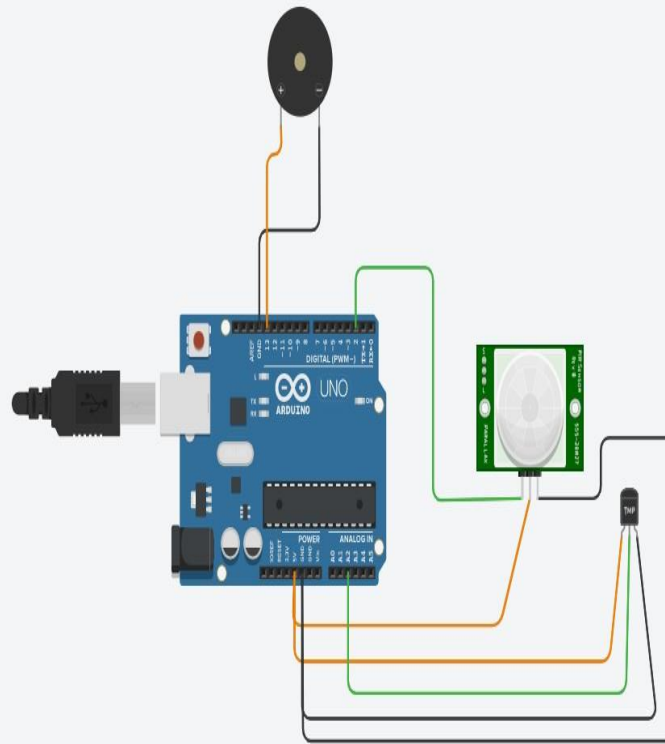
ASSIGNMENT–1

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Create circuit with Piezoal arm,PIR sensor,tmp sensor with below functionalities:

1. Alarm should sound in one manner if temp is above 60C
2. Alarm should sound with another frequency if motion is detected in PIR sensor



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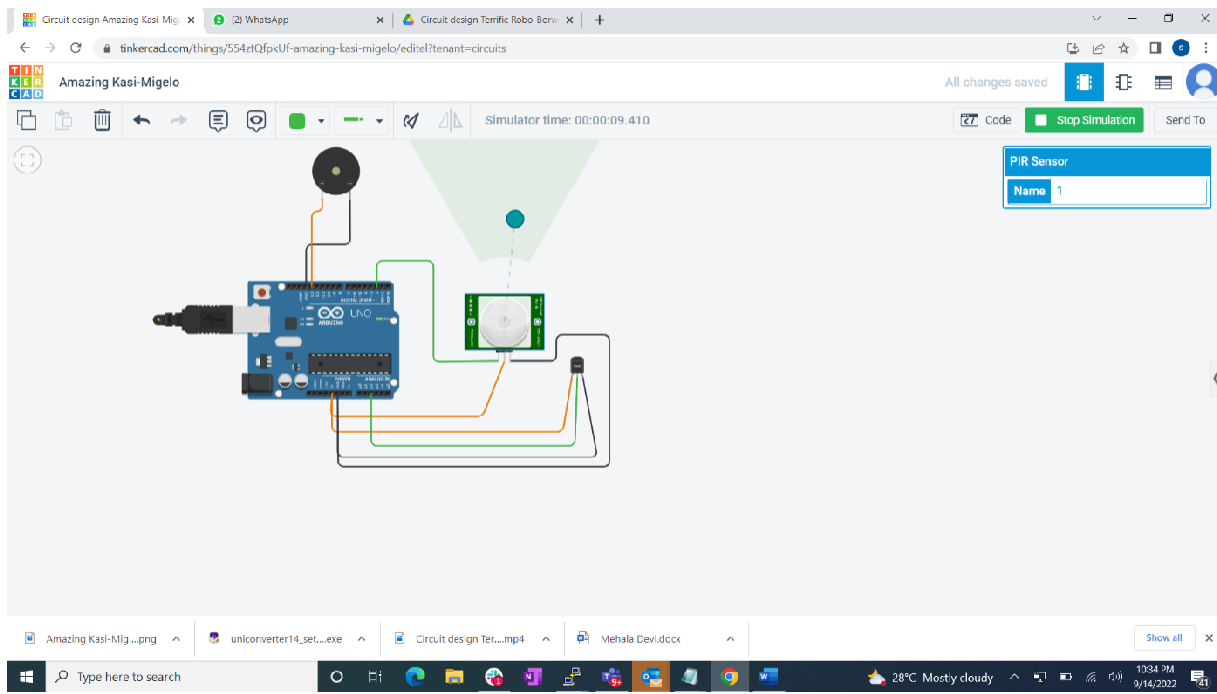
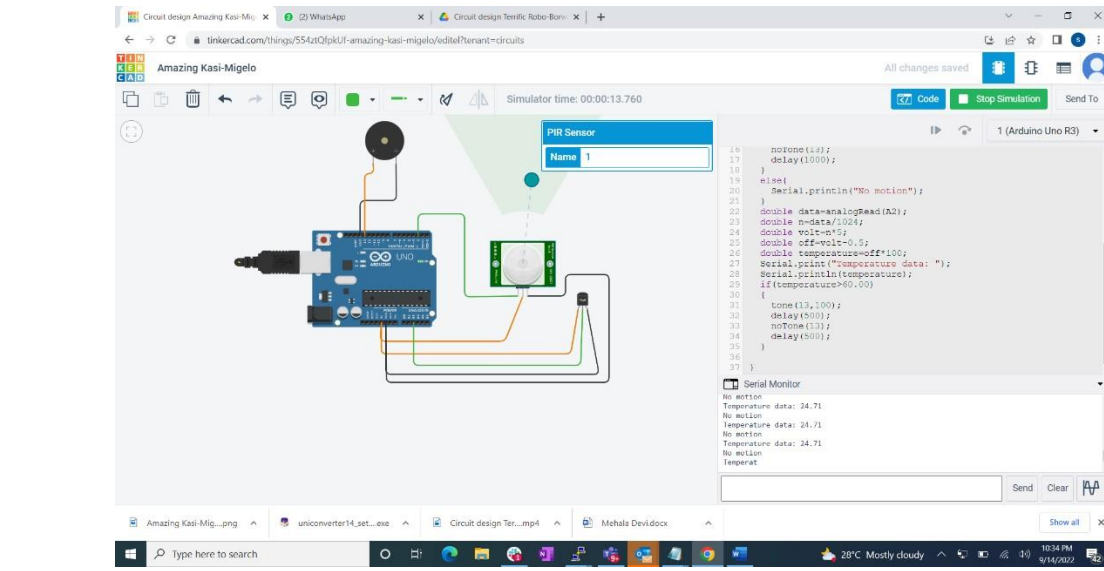
```
void setup()
{
  Serial.begin(9600);pin
  Mode(2,INPUT);pinMo
  de(12,OUTPUT);
}
void loop()
{
  int
  motion=digitalRead(2);if(motion=
  =1){Serial.println("Motion
  detected");tone(12,10);
  delay(1000);
  noTone(12);
  delay(1000);
}
else{
  Serial.println("Nomotion");
```

```

}
double data = analogRead(A2);
double n = data / 1024;
double
volt = n * 5; double off
= volt - 0.5;
double
temperature = off * 100; Serial.print(
"Temperature data: "); Serial.printl
n(temperature); if(temperature > 6
0.00)
{
  tone(12, 100);
  delay(500); n
  oTone(12); de
  lay(500);
}
}

```

OUTPUTS



SIMULATION LINK:

https://drive.google.com/file/d/1-G4uFywhLh2VL8yilX0zeKD53URChPj_/view?usp=drivesdk

