

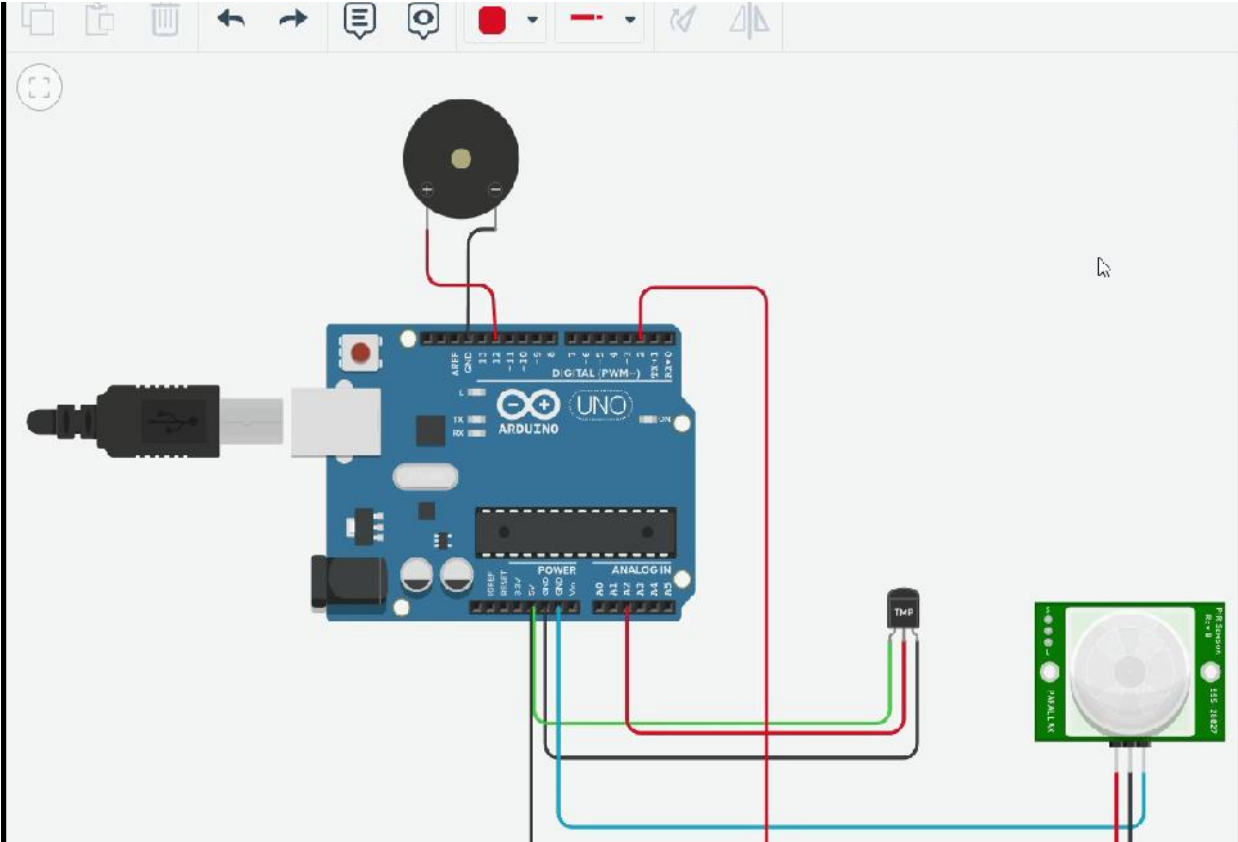
ASSIGNMENT - 1

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Create circuit with Piezo alarm, PIR sensor, tmp sensor with below functionalities:

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



ARDUINO UNO CODE

```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  pinMode(2,INPUT);
```

```
  pinMode(12,OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
  int motion=digitalRead(2);
```

```
  if(motion==1){
```

```
    Serial.println("Motion detected");
```

```
    tone(12,10);
```

```
    delay(1000)
```

```
    ;
```

```
    noTone(12);
```

```
    delay(1000)
```

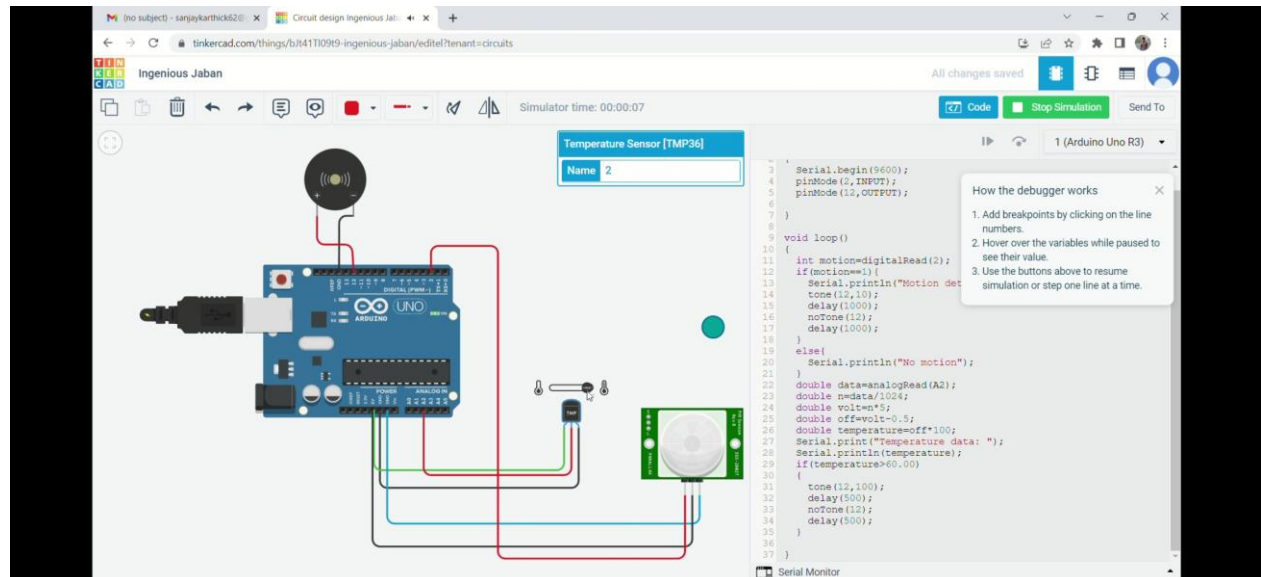
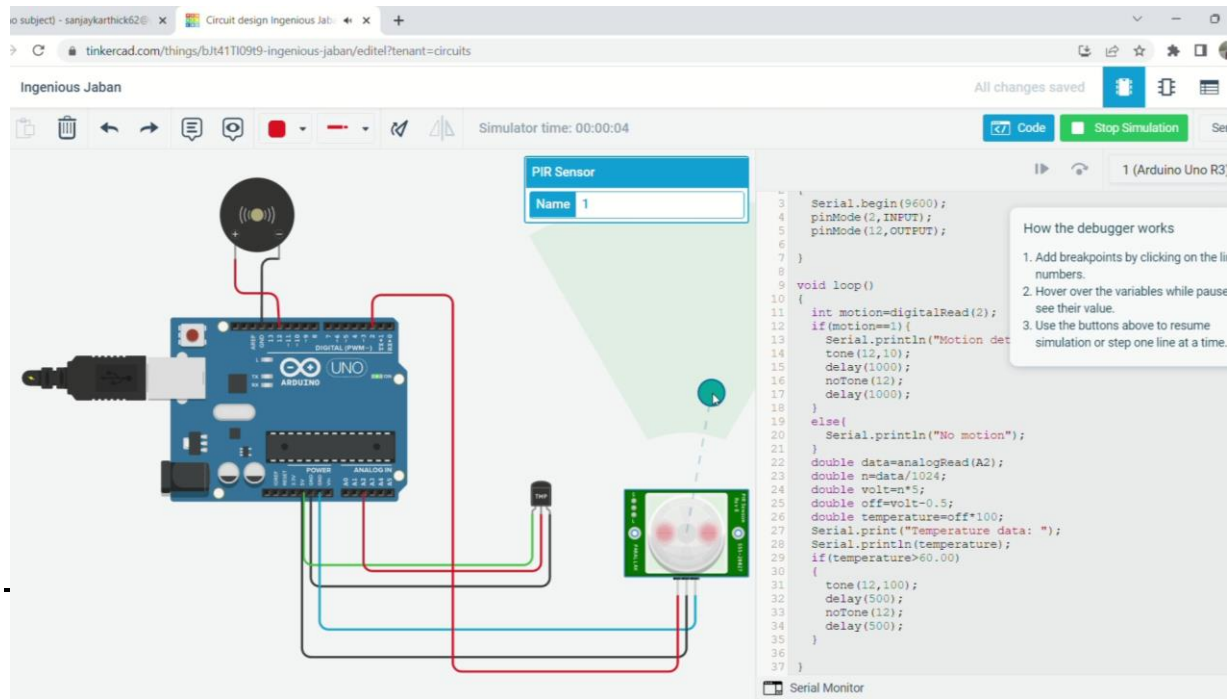
```
    ;
```

```
}
```

```
else{  
  Serial.println("No motion");
```

```
}  
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.println(temperature);  
if(temperature>60.00)  
{  
  
    tone(12,100);  
    delay(500);  
    noTone(12);  
    delay(500);  
}  
  
}
```

OUTPUTS



SIMULATION LINK :

<https://drive.google.com/file/d/1EgwKQ6mfSnpINfaQicnFKBzcQkz5rhLk/view?usp=drivesdk>

