

Assignment1 date: 13-09-2022

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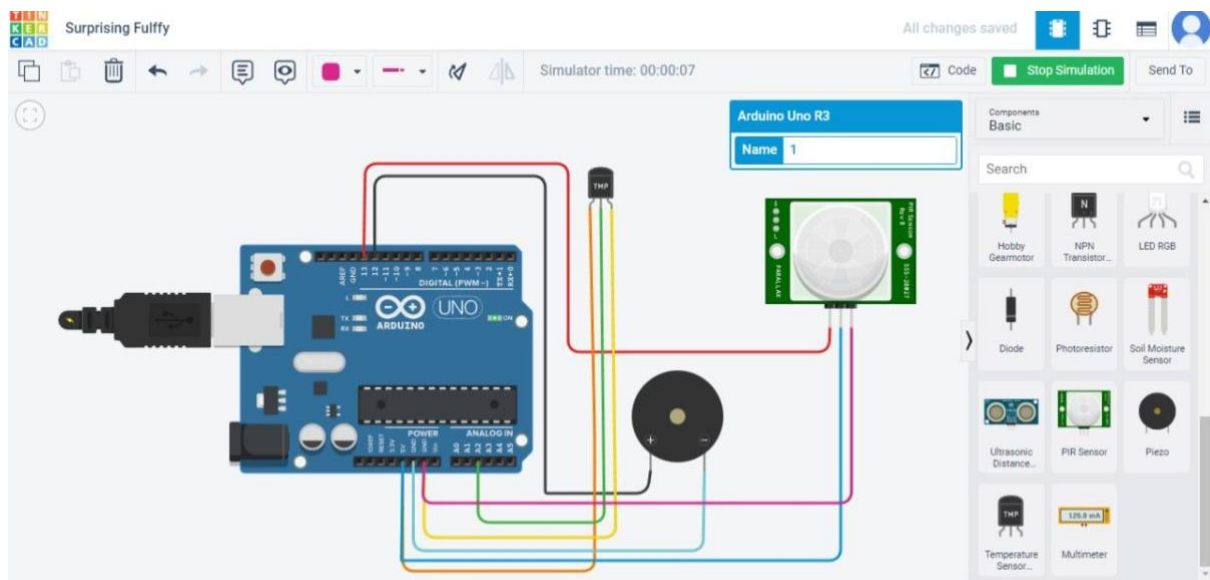
Maximum Mark:2Marks

Question:

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 FREQUWNCY IF MOTION IS DETECTED IN PIR SENSOR.



CODE:

```
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(intfreq=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(intfreq=2;freq<=3;freq++)
  {
    if(motion==1)
    {

```

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

```
tone(12,freq);
```

```
delay(200);
```

```
}
```

```
else
```

```
{
```

```
Serial.println(" No Motion");
```

```
noTone(12);
```

```
}
```

```
}
```

```
}
```

