

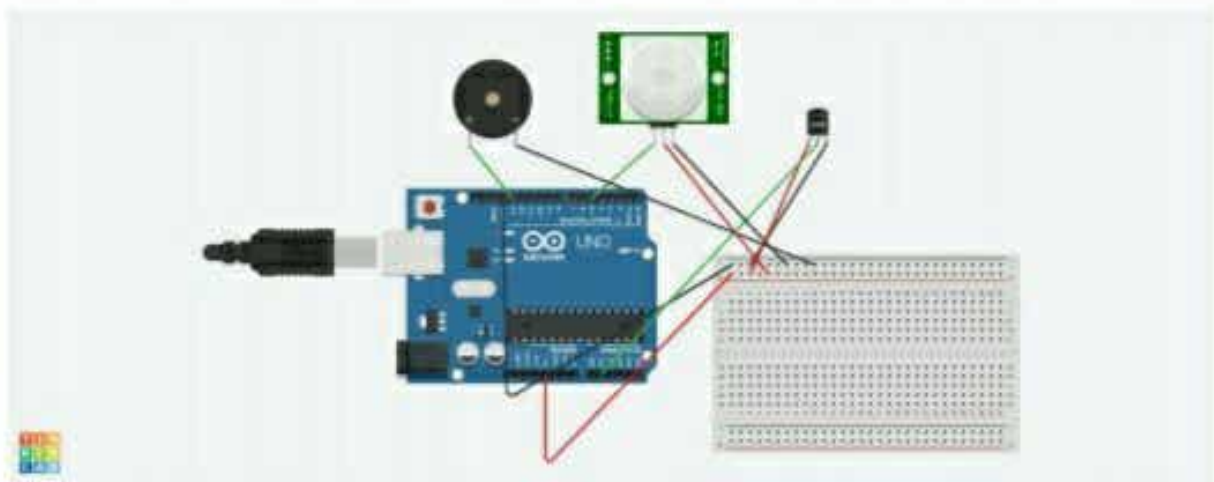
Cape Institute Of Technology

Department of electronics and communication engineering

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Assignment 1

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TERM ID :- PNT2022TMID33110
DATE :- 22/09/2022



CODE:

```
int pirsensor =5;
```

```
int buzzer =13;
```

```
int pirvalue =0;
```

```
float temperature=A1;
```

```
float analog;
```

```
float voltage;
```

```
float celcius;
```

```
void setup()
```

```
{
```

```
  pinMode(pirsensor, INPUT);
```

```
  pinMode(temperature, INPUT);
```

```
  pinMode(buzzer, OUTPUT);
```

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

```
}
```

```
void loop()
```

```
{
```

```
  analog=analogRead(temperature);
```

```
  voltage=analog*5.0/1023;
```

```
  celcius=(voltage-0.5)*100.0;
```

```
  Serial.print("temperature:");
```

```
  Serial.println(celcius);
```

```
  if (celcius >=60)
```

```
{  
  
    tone(buzzer, 200, 100);  
}  
delay(100);  
pirvalue = digitalRead(pirsensor);  
  
if (pirvalue == HIGH)  
{  
  
    tone(buzzer, 1000, 500);  
}  
  
delay(100);  
}
```