ASSIGNMENT 1

```
int baselineTemp = 0;
int celsius = 0;
int fahrenheit = 0;
int pinSensor =2;
int pinBuzzer = 7;
int pirSensor =0;
void setup()
pinMode(A0, INPUT);
Serial.begin(9600);
pinMode(pinSensor, INPUT);
pinMode(pinBuzzer, OUTPUT);
pinMode(7, OUTPUT);
```

```
void loop()
baselineTemp = 60;
pirSensor = digitalRead(pinSensor);
celsius = map(((analogRead(A0) - 20) * 3.04), 0, 1023, -40, 125);
fahrenheit = ((celsius * 9) / 5 + 32);
Serial.print(celsius);
Serial.print(" C, ");
Serial.print(fahrenheit);
Serial.println(" F");
(celsius >= baselineTemp + 1) \{ tone(7, 220, 100);
delay(100);
if (pirSensor == HIGH)
tone(pinBuzzer, 1000, 500);
delay(100);
```



