Assignment -1

Python Programming

| Assignment Date | 27 September 2022 |
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| Student Name | Brindha M |
| Student Roll Number | 922519205024 |
| Maximum Marks | 2 Marks |

Question-1:

To design a circuit using PIR sensor, Temperature sensor and Piezo alarm and to perform the following operations:

- Alarm should sound in one manner if the temperature is about "60 C".
- Alarm should sound with another frequency if motion is detected using PIR sensor.

| void setup() |
|--|
| { |
| Serial.begin(9600); |
| pinMode(4,OUTPUT); |
| pinMode(7,INPUT); |
| } |
| void loop() |
| { |
| int tem=digitalRead(7); |
| double d=analogRead(A3); |
| double n=d/1024; |
| double voltage=n*5; |
| double offset=voltage-0.5; |
| double temp=offset*100; |
| Serial.print("Temperature Detected:"); |
| Serial.println(temp); |
| if(tem==0){ |
| Serial.println("No Motion Detected"); |
| } |
| if(tem==1){ |
| Serial.println("Motion Detected"); |
| tone(4,100,1000); |
| } |
| if(temp>60){ |
| tone(4,400,1000); |
| } |
| } |
| |

OUTPUT:

