

Assignment -1

Assignment Date	16th September 2022
Student Name	PUTTA DEEPAK
Student Roll Number	111519106127
Team Id	PNT2022TMID15034
Maximum Marks	2 Marks

Code:

```
void setup()

{

  Serial.begin(9600);

  pinMode(9, OUTPUT);

  pinMode(4, INPUT);

}

void loop()

{

  int tempdata=analogRead(0); int

  pirdata=digitalRead(4);

  Serial.println(tempdata);

  if(tempdata>60){ tone(9,3500,500);

  delay(1000);

}

  if(pirdata==1){

    tone(9,5000,500);

    delay(1000);

  }

  digitalWrite(9,LOW);

}
```

Output:

The image displays two screenshots of the Tinkercad web interface, showing a circuit simulation of an Arduino Uno connected to various sensors and actuators.

Top Screenshot:

- Circuit:** An Arduino Uno is connected to a buzzer (yellow wire to digital pin 9, black to ground) and a temperature sensor (THP, red to digital pin 4, black to ground).
- Code:**

```
1 void setup()
2 {
3   Serial.begin(9600);
4   pinMode(9, OUTPUT);
5   pinMode(4, INPUT);
6 }
7
8 void loop()
9 {
10  int tempdata=analogRead(0);
11  int pirdata=digitalRead(4);
12  Serial.println(tempdata);
13  if(tempdata>60){
14    tone(9,3500,500);
15    delay(1000);
16  }
17  if(pirdata==1){
18    tone(9,5000,500);
19    delay(1000);
20  }
21  digitalWrite(9,LOW);
22 }
```
- Serial Monitor:** Shows the output of the code, displaying the temperature data.

Bottom Screenshot:

- Circuit:** The same circuit as the top screenshot, but with an LED (green wire to digital pin 9, black to ground) and a potentiometer (red to digital pin 4, black to ground) added.
- Components Panel:** The right sidebar shows the components panel with a search bar and a list of components: Resistor, LED, Pushbutton, Potentiometer, Capacitor, Slideswitch, 9V Battery, Coin Cell 3V Battery, 1.5V Battery, Breadboard, micro:bit, and Arduino Uno.