

Assignment -1

Assignment Date	16th September 2022
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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 the Tinkercad web interface for a project titled "1st Assignment". The circuit features an Arduino Uno connected to a breadboard. A black potentiometer is connected to the 5V, GND, and A0 pins of the Arduino. A 10k resistor is connected between the potentiometer's wiper (middle pin) and the GND rail of the breadboard. A green LED is connected between the potentiometer's outer pin (connected to 5V) and the D4 pin of the Arduino. The code in the "Text" editor is as follows:

```
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 }
```

The "Serial Monitor" is open at the bottom. The components panel on the right shows various electronic components like Resistor, LED, Pushbutton, Potentiometer, Capacitor, Slideswitch, 9V Battery, Coin Cell 3V Battery, 1.5V Battery, Breadboard, micro:bit, and Arduino Uno.