

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 potentiometer is connected to the 5V, GND, and A0 pins of the Arduino. A pushbutton is connected to the 5V, GND, and D4 pins. A 9V battery is connected to the 5V and GND pins. A coin cell battery is connected to the D9 and D10 pins. A 1.5V battery is connected to the D11 and D12 pins. A breadboard is also connected to the D13 and D14 pins. 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, showing the output of the code. The components list on the right includes Resistor, LED, Pushbutton, Potentiometer, Capacitor, Slideswitch, 9V Battery, Coin Cell 3V Battery, 1.5V Battery, Breadboard, micro:bit, and Arduino Uno.