

ASSIGNMENT -1

TEAM ID:PNT2022TMID33851

Simulator interface for the "Terrific Inari-Waasa" project. The circuit diagram shows an Arduino Uno R3 connected to a temperature sensor module. The code in the C++ editor is as follows:

```
1 // C++ code
2 //
3 void setup()
4 {
5   Serial.begin(9600);
6   pinMode(13, OUTPUT);
7 }
8
9 void loop()
10 {
11   double a = analogRead(A0);
12   double t = ((a/1024)*5)-0.5)*100;
13   Serial.print("temperature value:");
14   Serial.println(t);
15   if(t>100)
16     digitalWrite(13,1);
17   else
18     digitalWrite(13,0);
19   delay(1000);
20   int b = digitalRead(4);
21   Serial.println(b);
22   if(b)
23     Serial.println("Motion detected!");
24   delay(1000);
25 }
```

The Serial Monitor is currently empty.

Simulator interface for the "Terrific Inari-Waasa" project. The circuit diagram shows an Arduino Uno R3 connected to a temperature sensor module. The code in the C++ editor is as follows:

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21   Serial.println(b);
22   if(b)
23     Serial.println("Motion detected!");
24   delay(1000);
25 }
```

The Serial Monitor displays the following output:

```
0
temperature value:24.71
0
temperature value:24.71
0
temperature value:24.71
0
temperature value:24.71
```