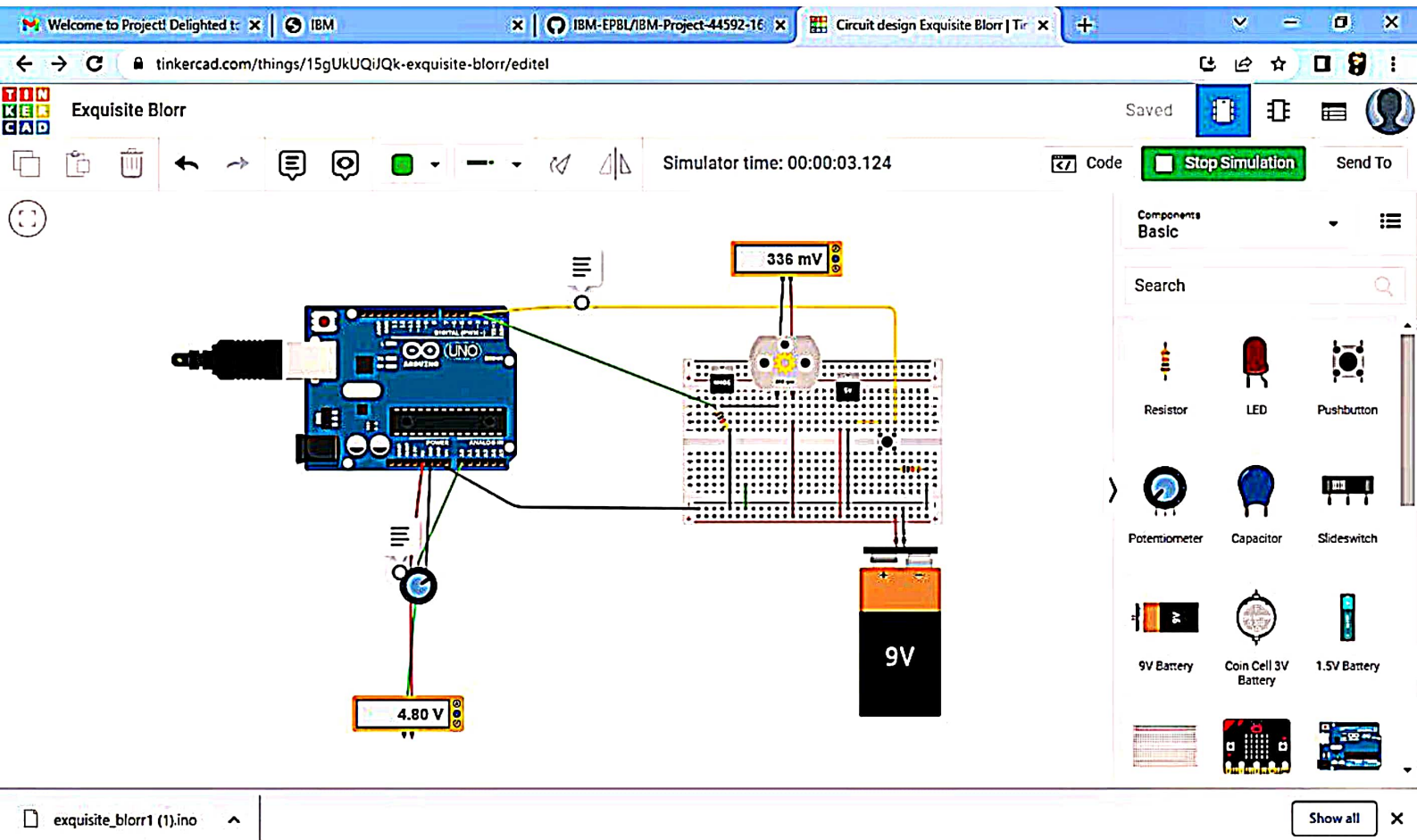


# project deliverables

## SPRINT 3

TEAM ID : PNT2022TMID50300



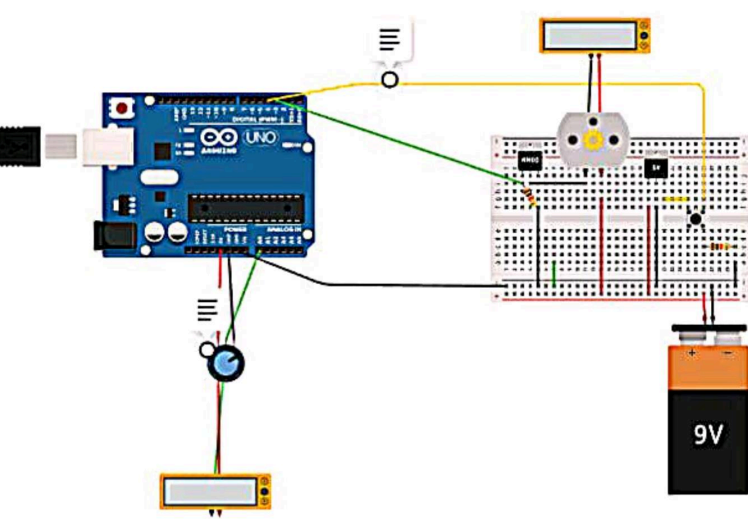
Welcome to Project! Delighted to... IBM IBM-EPBL/IBM-Project-44592-16 Circuit design Exquisite Blorr | Tir

tinkercad.com/things/15gUkUQjJQk-exquisite-blorr/editel

Exquisite Blorr

All changes saved

Code Start Simulation Send To



```
1 /*
2  ReadAnalogVoltage
3  Reads an analog input on pin 0, converts it to voltage, and prints
4
5  OPEN THE SERIAL MONITOR TO VIEW THE OUTPUT >>
6  Attach the center pin of a potentiometer to pin A0, and the out
7
8  This example code is in the public domain.
9  */
10 unsigned long startMillis;
11 unsigned long currentMillis;
12 static int ButtonValueOld;
13 static float IntermitOutput;
14 static float Output_Hold;
15 static float Output_Hold;
16 static bool SchoolReached=false;
17 static bool SchoolCrossed=false;
18 const unsigned long period = 100; //the value is a number of mil
19 //100ms = 0.1seconds
20
21 // the setup routine runs once when you press reset:
22 void setup() {
23   // initialize serial communication at 9600 bits per second:
24   Serial.begin(9600);
25   pinMode(3, OUTPUT);
26   pinMode(4, INPUT);
27 }
28
29 // the loop routine runs over and over again forever:
30 void loop()
31 {
32
```

Serial Monitor



Exquisite Blorr

All changes saved

Code Start Simulation Send To

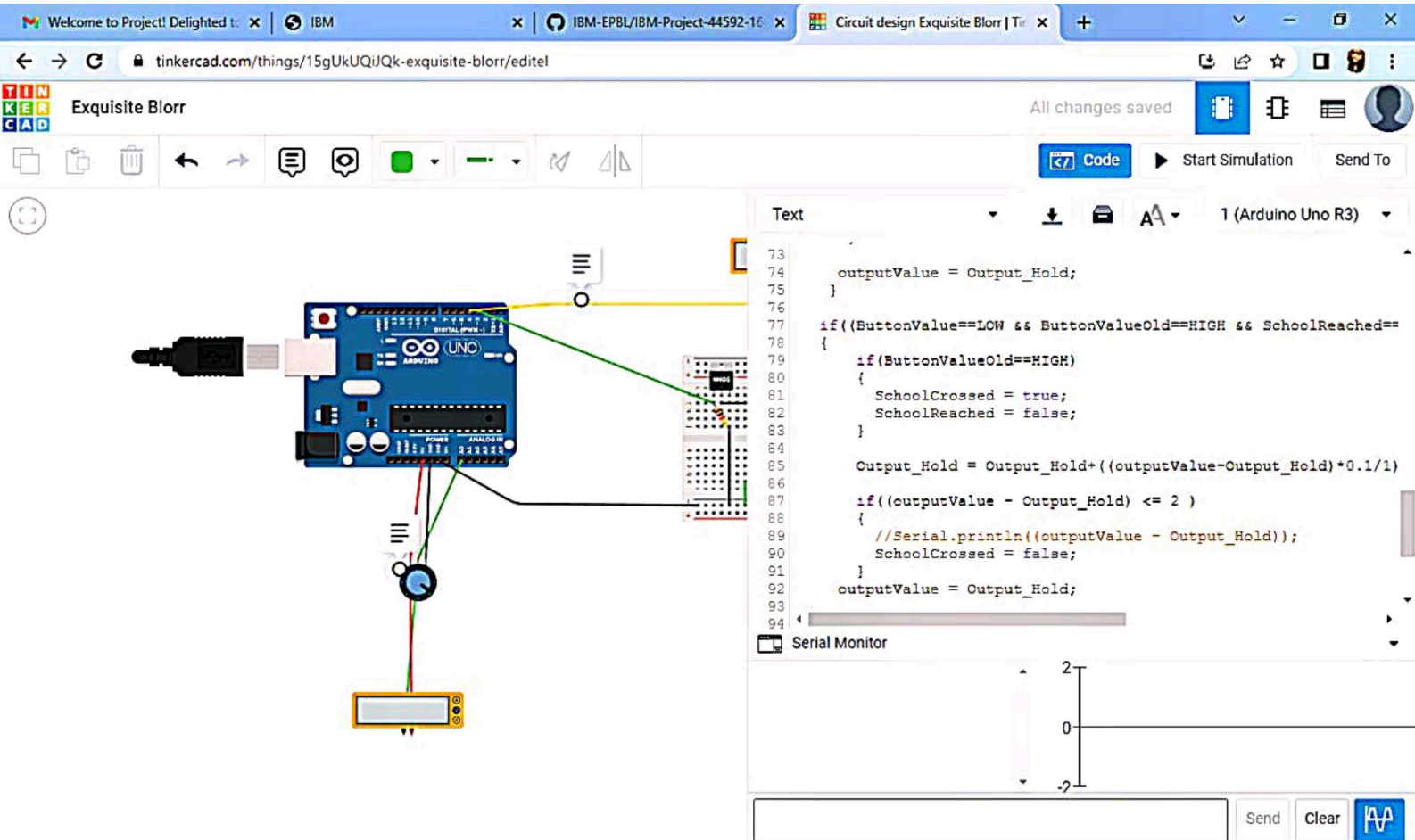
Text 1 (Arduino Uno R3)

```
73   outputValue = Output_Hold;
74   }
75   }
76   }
77   if((ButtonValue==LOW && ButtonValueOld==HIGH && SchoolReached==
78   {
79       if(ButtonValueOld==HIGH)
80       {
81           SchoolCrossed = true;
82           SchoolReached = false;
83       }
84       Output_Hold = Output_Hold+((outputValue-Output_Hold)*0.1/1)
85       if((outputValue - Output_Hold) <= 2 )
86       {
87           //Serial.println((outputValue - Output_Hold));
88           SchoolCrossed = false;
89       }
90       outputValue = Output_Hold;
91   }
92   }
93   }
94   }
```

Serial Monitor

2  
0  
-2

Send Clear



The screenshot displays the Tinkercad web interface for a project named "Exquisite Blorr". The circuit features an Arduino Uno R3 connected to a breadboard. On the breadboard, there is a potentiometer with its wiper connected to a digital pin (likely for reading the button state), a push button connected to a digital pin, and an LED connected to an analog pin. The code in the "Text" window implements a low-pass filter for the button state, using variables like `ButtonValue`, `ButtonValueOld`, `SchoolReached`, `SchoolCrossed`, `Output\_Hold`, and `outputValue`. The Serial Monitor shows a graph of the output value over time, with a scale from -2 to 2.