

Task :

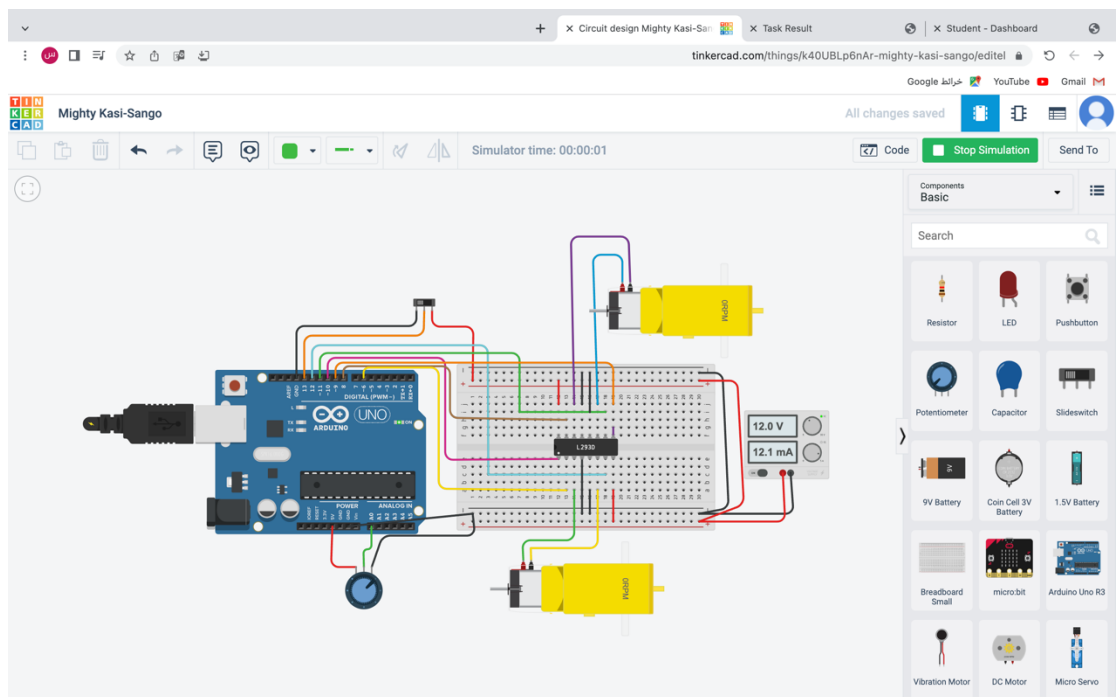
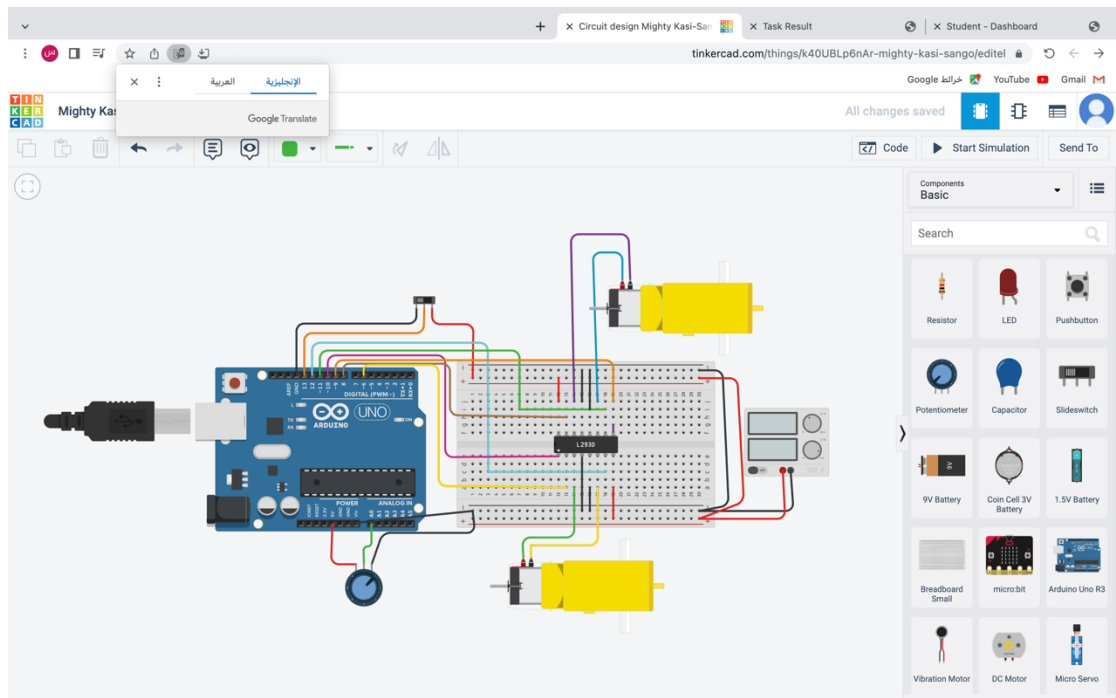
```
// C++ code
//
void setup()
{
    pinMode(13, INPUT);
    pinMode(9, OUTPUT);

    pinMode(10, OUTPUT);
    pinMode(8, OUTPUT);
    pinMode(12, OUTPUT);
    pinMode(6, OUTPUT);
    pinMode(11, OUTPUT);
}

void loop()
{
    int potValue=analogRead(A0); // to read the potentmetr value
    int pwmEn=map(potValue,0,1023,0,255);
    analogWrite(9,pwmEn); // we send the pwm to the en pins
    analogWrite(10,pwmEn);

    if (digitalRead(13)==HIGH) //Move the motor forward
    { digitalWrite(12,1);
      digitalWrite(8,1);
      digitalWrite(11,0);
      digitalWrite(6,0); }
    else //Move the motor backwards
    { digitalWrite(12,0);
      digitalWrite(8,0);
      digitalWrite(11,1);
      digitalWrite(6,1);
    }

    delay(150); // Wait for 150 millisecond(s)
}
```



tinkercad.com/things/k40UBLp6nAr-mighty-kasi-sango/editel

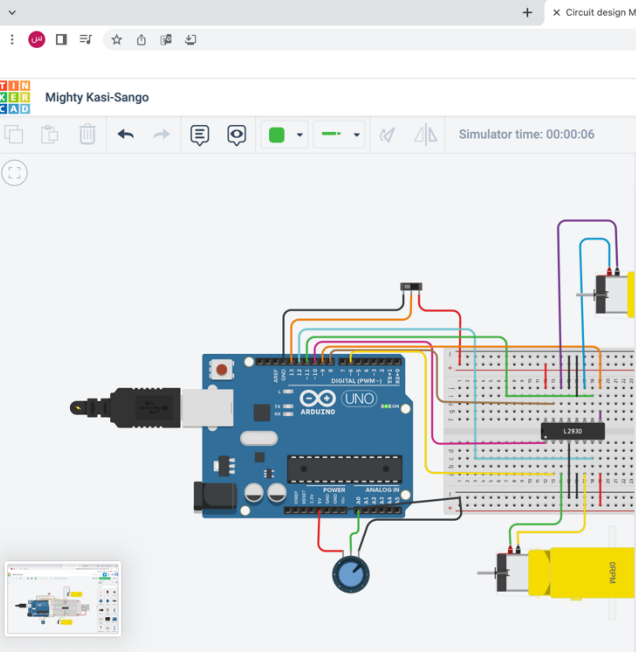
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All changes saved

Simulator time: 00:00:06

Code Stop Simulation Send To

1 (Arduino Uno R3)



```
1 // C++ code
2 void setup()
3 {
4   pinMode(13, INPUT);
5   pinMode(9, OUTPUT);
6
7   pinMode(10, OUTPUT);
8   pinMode(8, OUTPUT);
9   pinMode(12, OUTPUT);
10  pinMode(6, OUTPUT);
11  pinMode(11, OUTPUT);
12 }
13
14
15
16 void loop()
17 {
18   int potValue=analogRead(A0); // to read the potentiometer value
19   int pwmEn=map(potValue,0,1023,0,255);
20   analogWrite(9,pwmEn); // we send the pwm to the en pins
21   analogWrite(10,pwmEn);
22
23
24
25   if (digitalRead(13)==HIGH) //Move the motor forward
26   {
27     digitalWrite(12,1);
28     digitalWrite(8,1);
29     digitalWrite(11,0);
30     digitalWrite(6,0);
31   }
32   else //Move the motor backwards
33   {
34     digitalWrite(12,0);
35     digitalWrite(8,0);
36     digitalWrite(11,1);
37     digitalWrite(6,1);
38   }
39
40   delay(150); // Wait for 150 millisecond(s)
41 }
```

How the debugger works

1. Add breakpoints by clicking on the line numbers.
2. Hover over the variables while paused to see their value.
3. Use the buttons above to resume simulation or step one line at a time.

Serial Monitor

<https://www.tinkercad.com/things/k>

[40UBLp6nAr](#)