



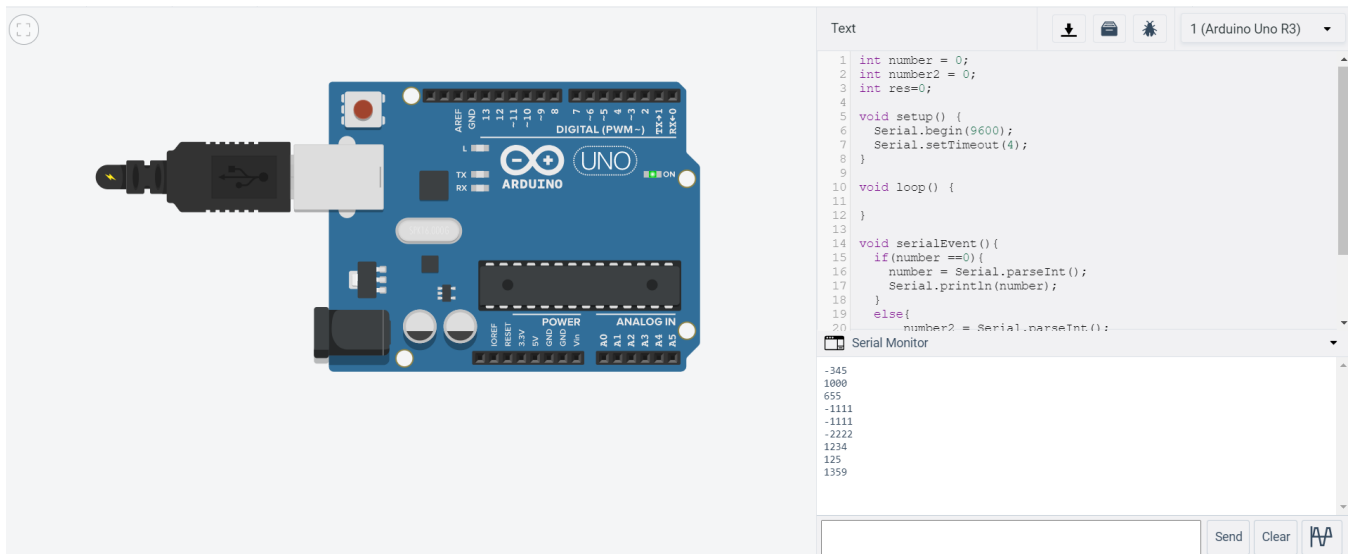
## Arduino Lab 2

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## Screenshots of the simulation:



## Code Decisions:

I have opted to use the function “Serial.parseInt()” instead of constructing a naïve manual function to read the user input as the built-in function is more reliable and it also ends the user input with a new line character as required.

Also, Serial Time out has been set to 4 milliseconds so if user input exceeds 5 characters (a sign and a 4-digit number) then the value taken from the user will be unreliable (also as required).

## Code:

```
1.  int number = 0;
2.  int number2 = 0;
3.  int res=0;
4.
5.  void setup() {
6.      Serial.begin(9600);
7.      Serial.setTimeout(4);
8.  }
9.
10. void loop() {
11.
12. }
13.
14. void serialEvent(){
15.     if(number ==0){
16.         number = Serial.parseInt();
17.         Serial.println(number);
18.     }
19.     else{
20.         number2 = Serial.parseInt();
21.         Serial.println(number2);
22.         res = number + number2;
23.         Serial.println(res);
24.         number = 0;
25.     }
26. }
```