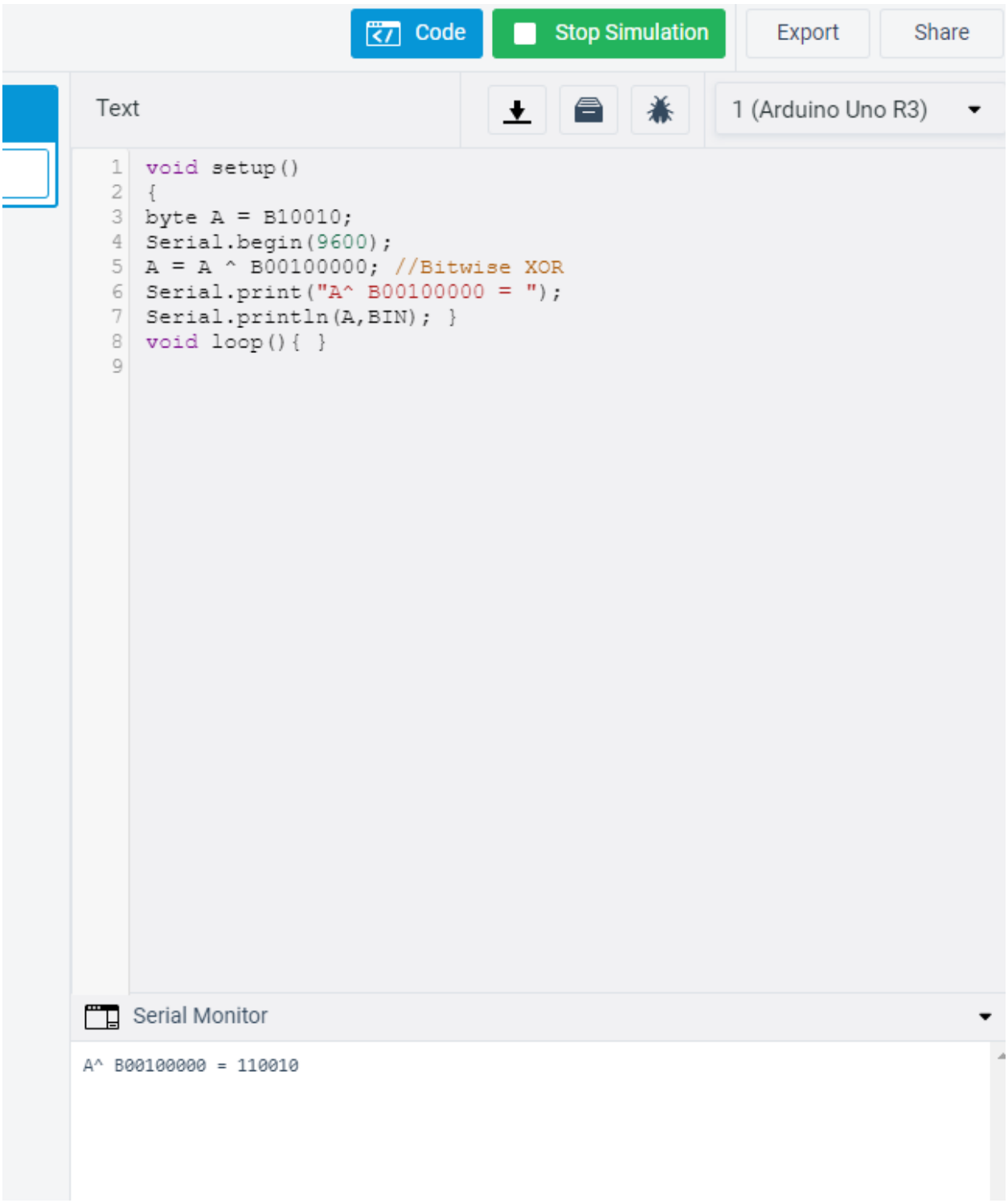
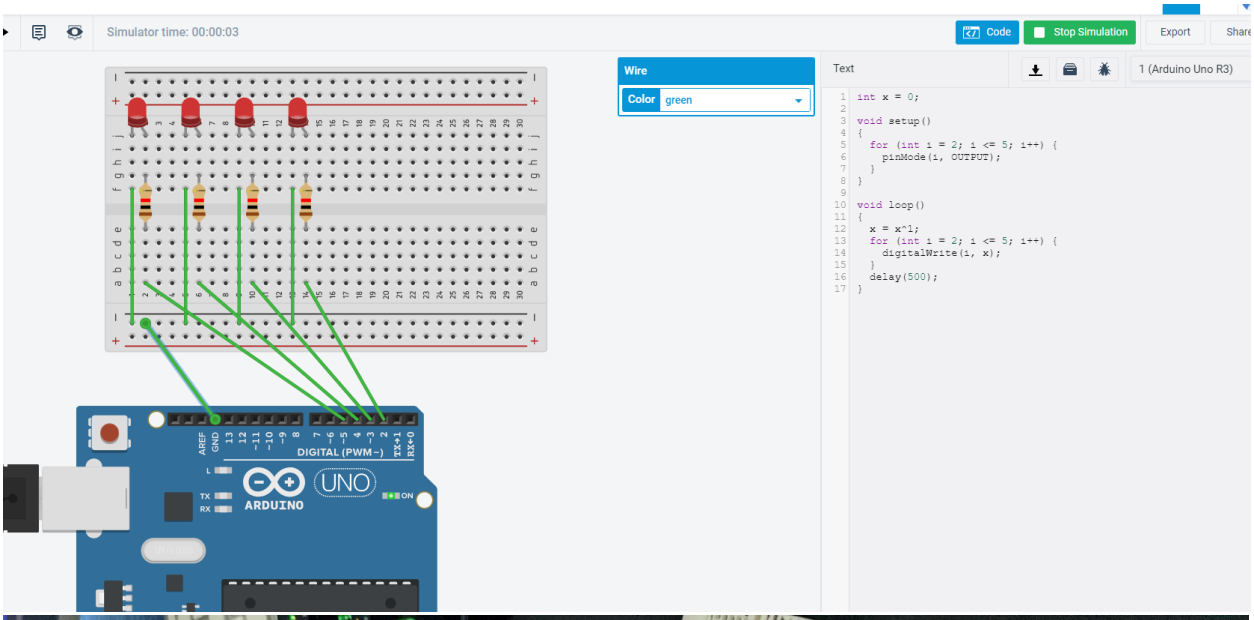
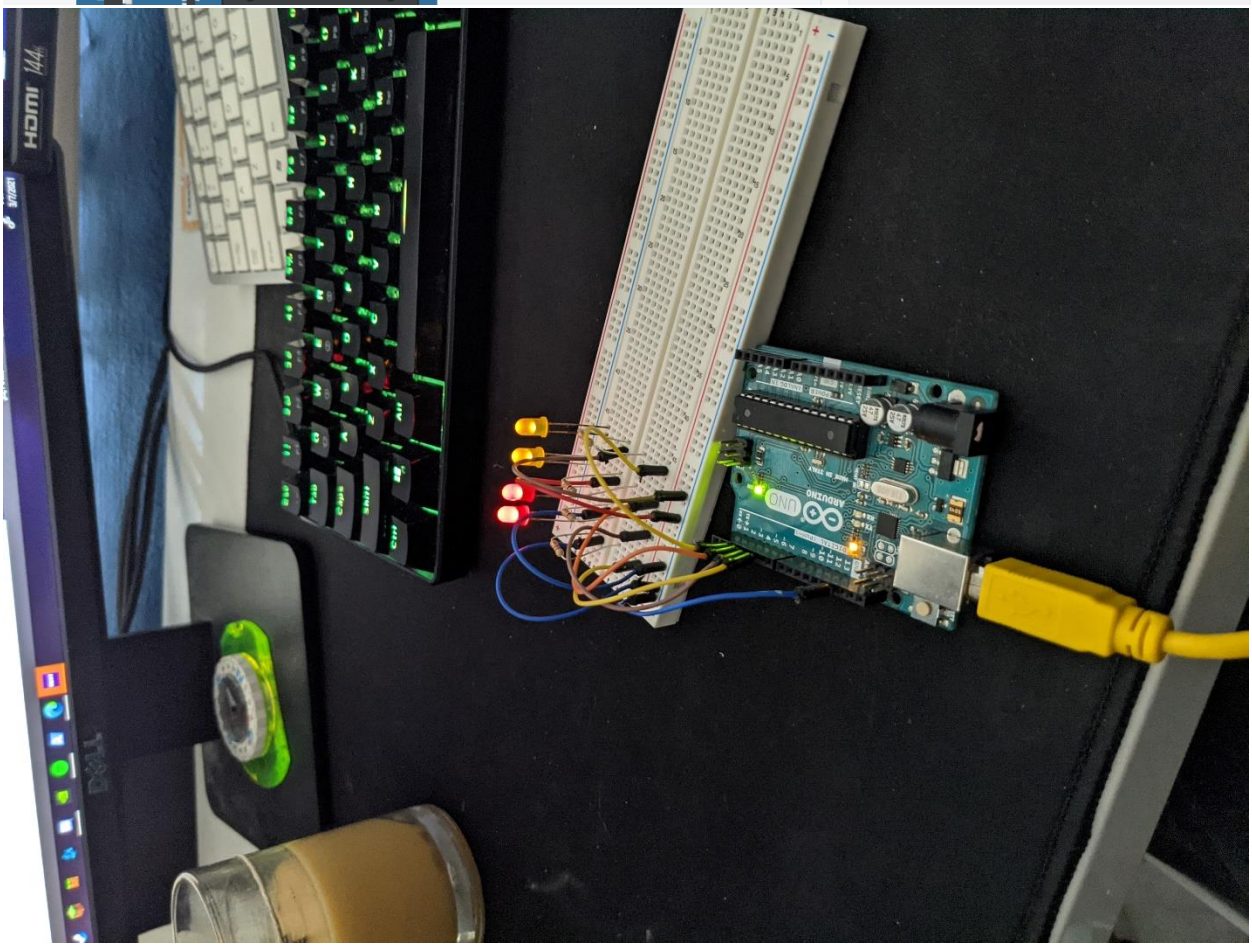
Exercise 1,2, and 5 rory lange

Exercise 3

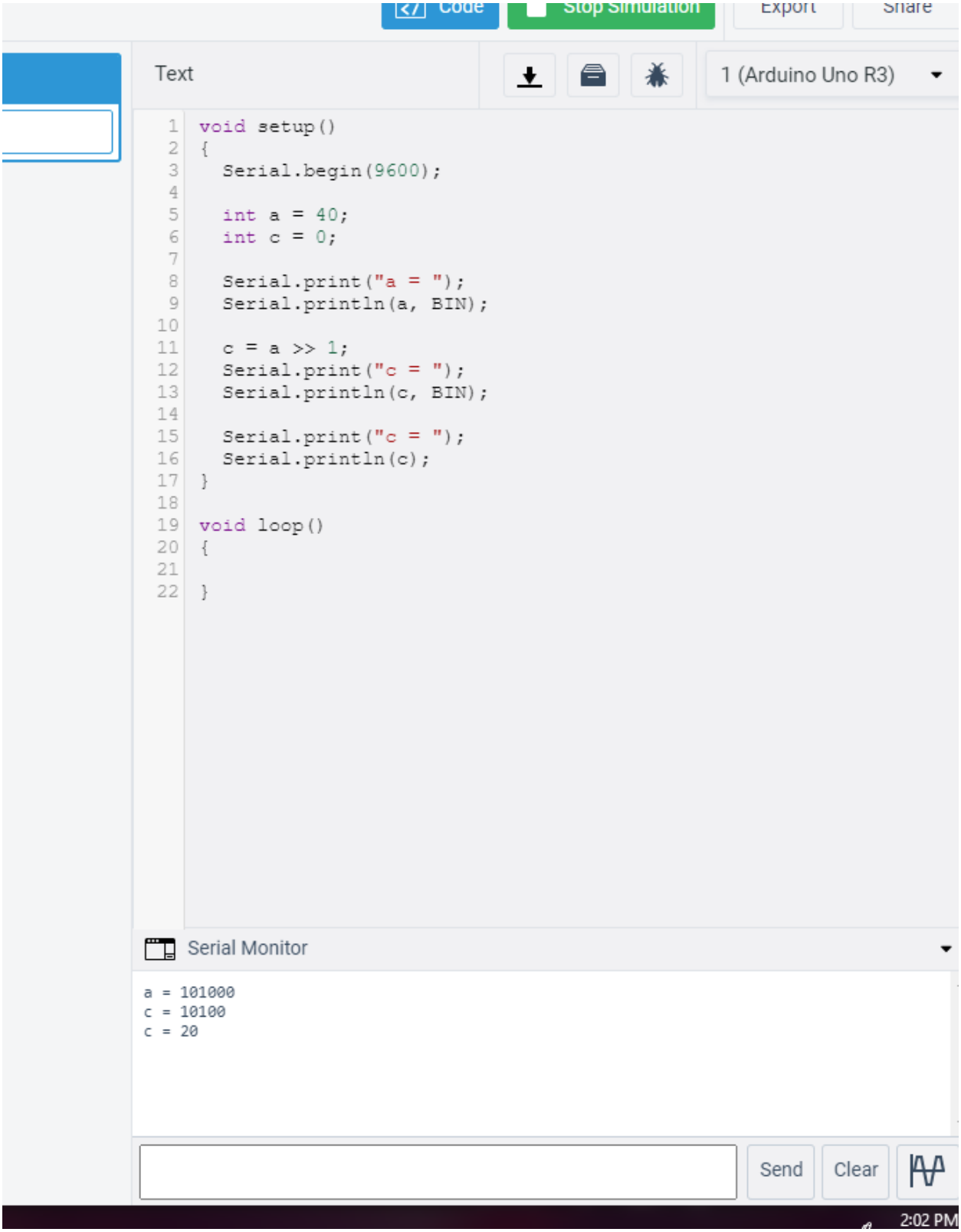

Code
Stop Simulation
Export
Share
Text
1 (Arduino Uno R3)
1 void setup()
2 {
3 byte A = B10010;
4 Serial.begin(9600);
5 A = A ^ B00100000; //Bitwise XOR
6 Serial.print("A^ B00100000 = ");
7 Serial.println(A,BIN); }
8 void loop(){ }
9
Serial Monitor
A^ B00100000 = 110010

Exercise 4


Simulator time: 00:00:03
Code
Stop Simulation
Export
Wire
Color
green
Text
1 (Arduino Uno R3)
int x = 0;
void setup()
{
for (int i = 2; i <= 5; i++) {
pinMode(i, OUTPUT);
}
}
void loop()
{
x = x^1;
for (int i = 2; i <= 5; i++) {
digitalWrite(i, x);
}
delay(500);
}
DIGITAL (PWM~)
UNO
ARDUINO



Exercise 6


Code
Stop Simulation
Export
Share
Text
1 (Arduino Uno R3)
1 void setup()
2 {
3 Serial.begin(9600);
4
5 int a = 40;
6 int c = 0;
7
8 Serial.print("a = ");
9 Serial.println(a, BIN);
10
11 c = a >> 1;
12 Serial.print("c = ");
13 Serial.println(c, BIN);
14
15 Serial.print("c = ");
16 Serial.println(c);
17 }
18
19 void loop()
20 {
21
22 }
Serial Monitor
a = 101000
c = 10100
c = 20
Send
Clear
2:02 PM

Exercise 7

Text

1 (Arduino Uno R3)

```
1  void setup()
2  {
3    int a = 40;
4    int b = 24;
5
6    Serial.begin(9600);
7
8    Serial.print("a = ");
9    Serial.println(a);
10   Serial.print("b = ");
11   Serial.println(b);
12   Serial.print("a & b = ");
13   Serial.println(a & b);
14   Serial.print("a | b = ");
15   Serial.println(a | b);
16   Serial.print("a >> 2 = ");
17   Serial.println(a>>2);
18   Serial.print("a << 3 = ");
19   Serial.println(a<<3);
20 }
21
22 void loop()
23 {
24
25 }
```

Serial Monitor

```
a = 40
b = 24
a & b = 8
a | b = 56
a >> 2 = 10
a << 3 = 320
```

Send Clear