

Exercise 1, 2 and 5 rory lange

108421
 11001
 01101
 $(25)_{10} = (01001)_2 = (7)_{10}$
 $(27)_{10} = (11011)_2 = (8)_{10}$
 $(34)_{10} = (100010)_2$
 $(2)_{10} = (0000010)_2$
 $(25)_{10} = (11001)_2 = (29)_{10}$
 $(27)_{10} = (11011)_2 = (31)_{10}$
 $(7)_{10} = (00111)_2 = (23)_{10}$
 $(101)_{10} = (1001011)_2$
 $(1001)_{10} = (100010001)_2$
 $(1000)_{10} = (101110111)_2$

Exercise 3

All changes saved

Code

Stop Simulation

Export

Share

Arduino Uno R3

Name 1

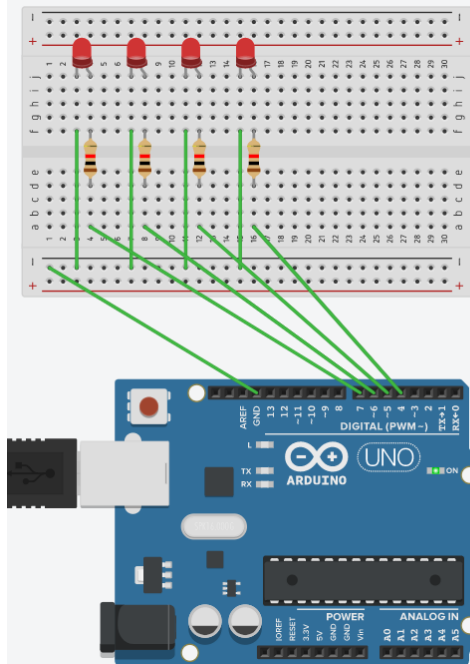
Text

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(){ }

Serial Monitor

A^ B00100000 = 110010

Exercise 4 code is bugged it says there is an error but there isn't an error



```
1 int x = 0;
2 int leds[] = {4,5,6,7};
3
4 void setup() {
5   for (int i = 4; i <= 7; i++) {
6     pinMode(i, OUTPUT);
7   }
8 }
9
10 void loop() {
11   x = x ^ 1;
12   for (int i = 4; i <= 7; i++) {
13     digitalWrite(i, x);
14   }
15   delay(500);
16 }
17
```