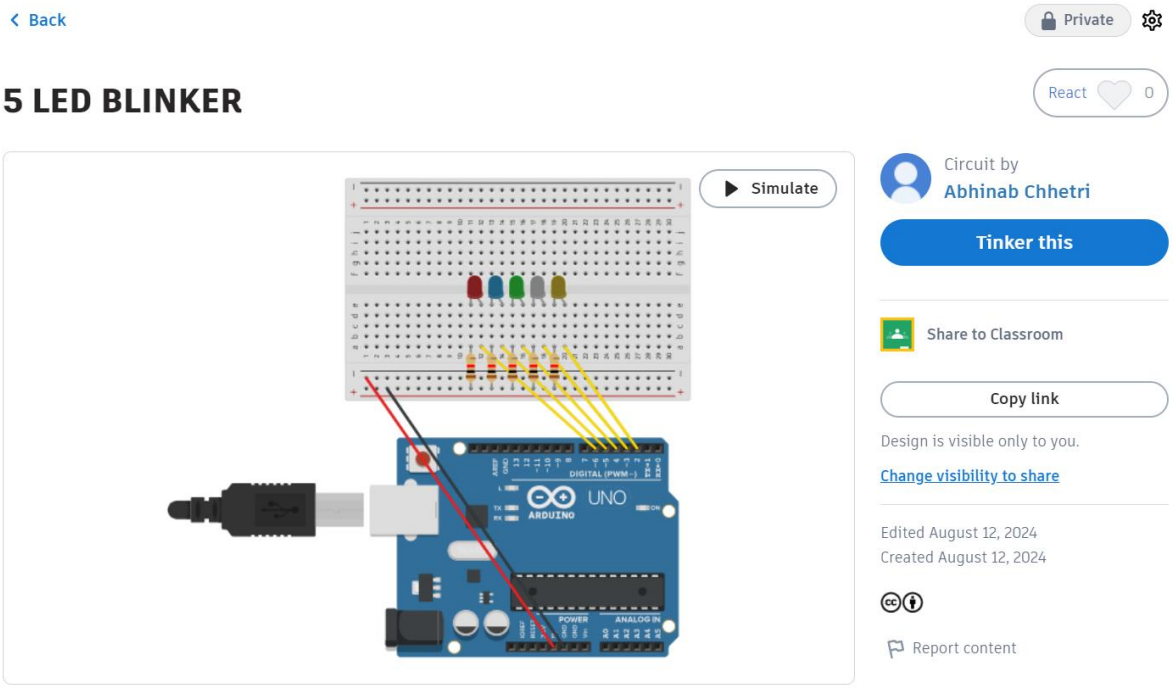
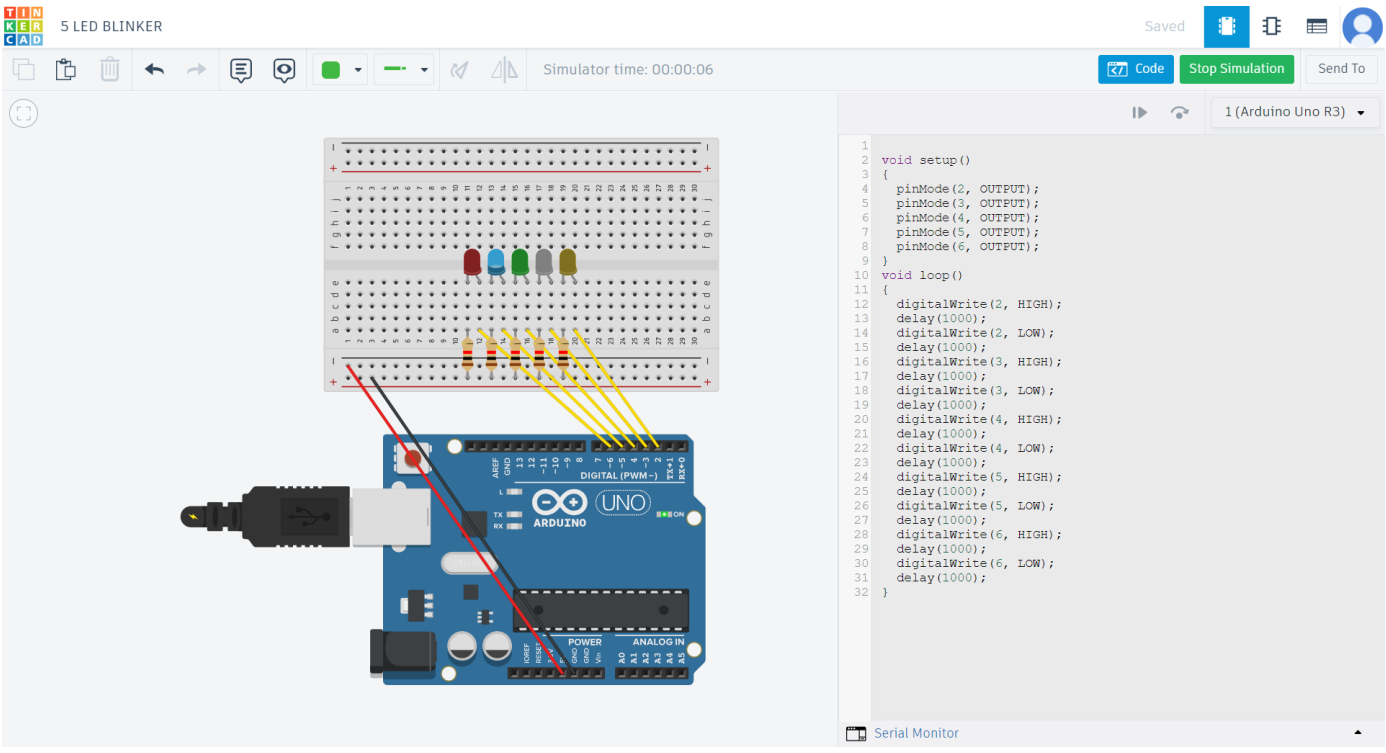
Assignment 1-A (5 LED BLINKER)





Assignment 1-B (VERIFICATION OF GATES)

Back

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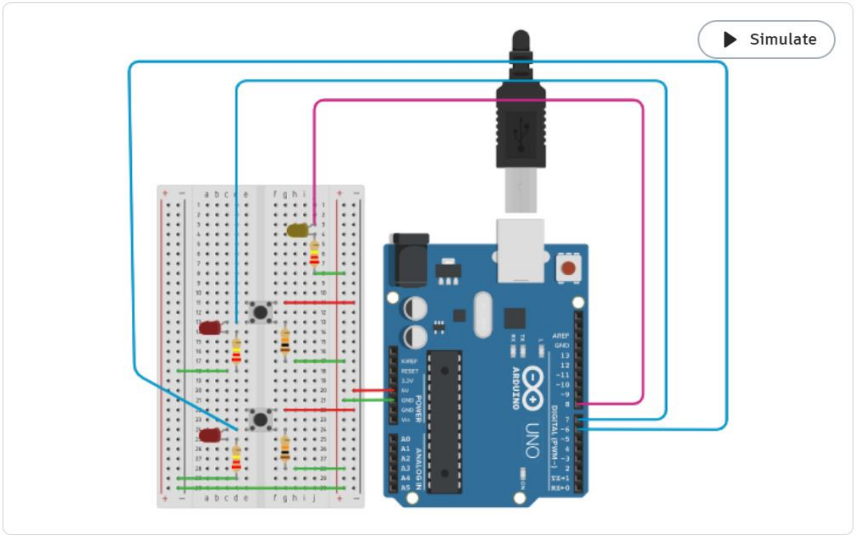
AND ,NAND and XOR gates

1



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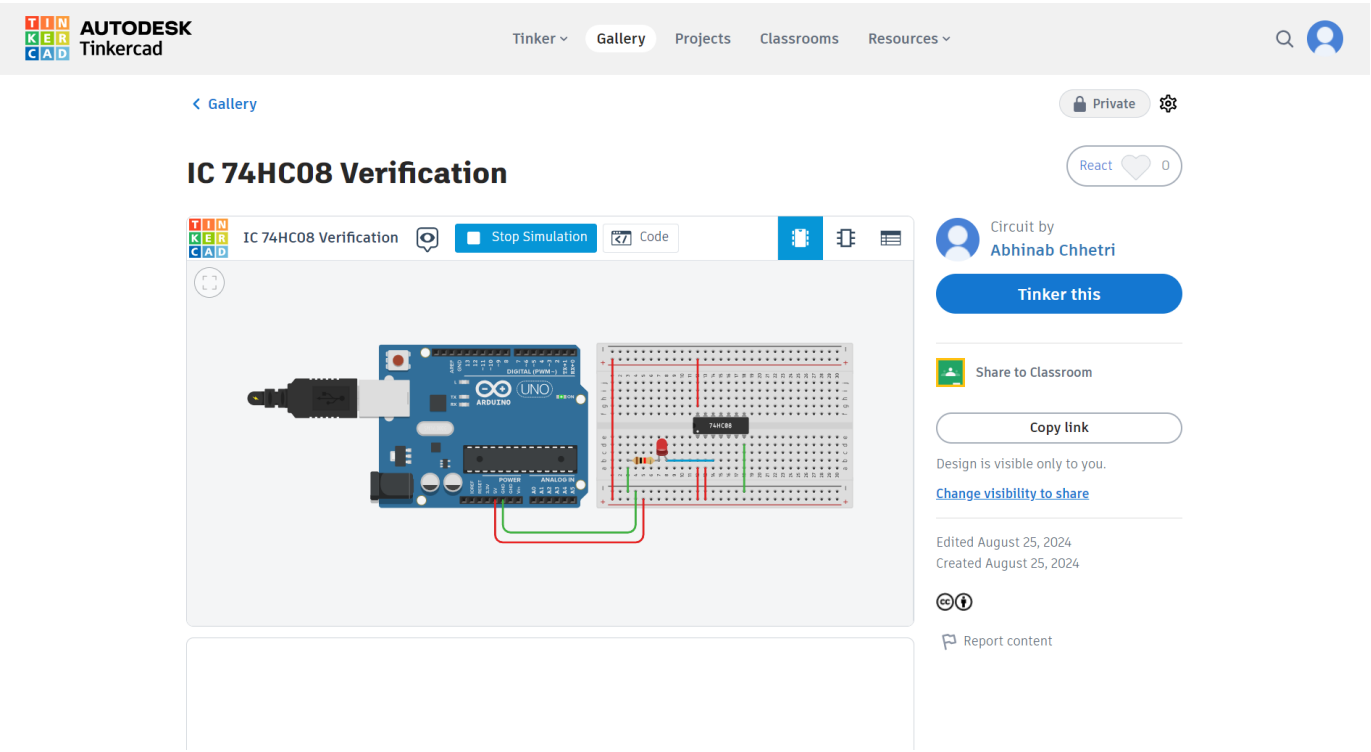
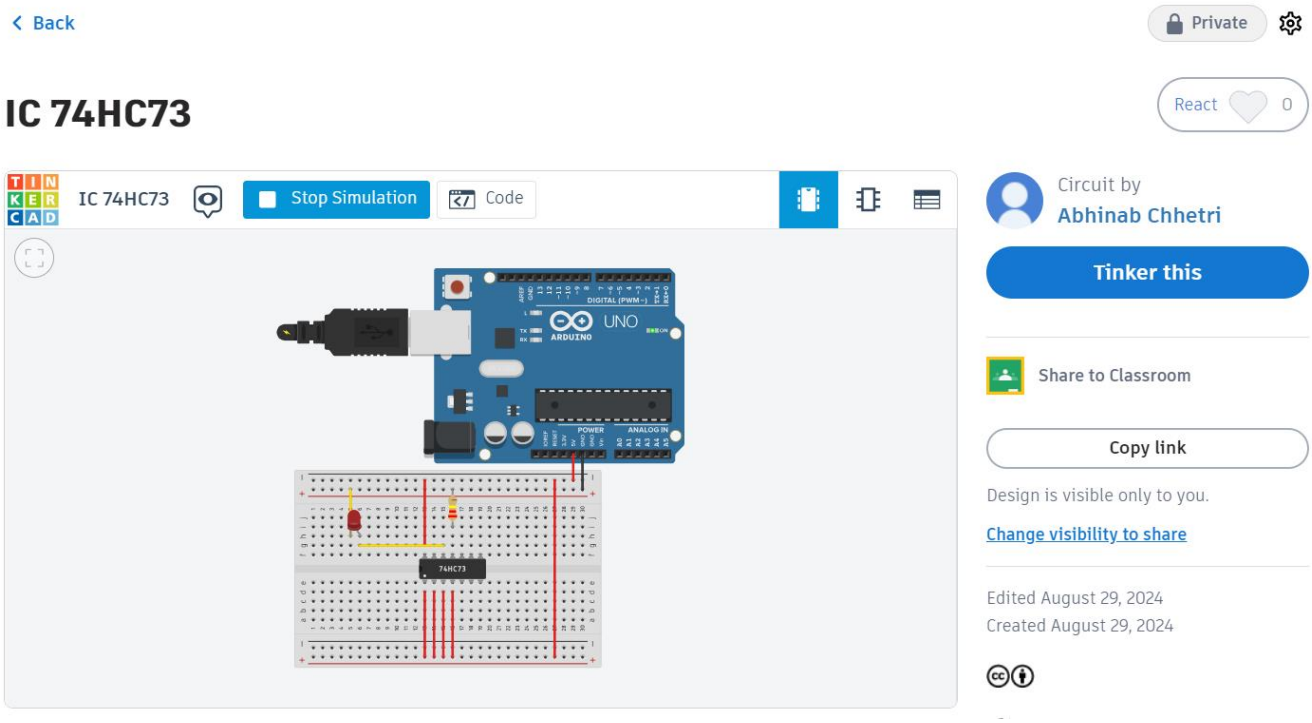
```
//AND GATE
void setup()
{
  pinMode(6,INPUT);
  pinMode(7,INPUT);
  pinMode(8, OUTPUT);
}

void loop()
{
  if (digitalRead(7)==1 && digitalRead(6)==1)
    digitalWrite(8,HIGH);
  }
  else{
    digitalWrite(8,LOW);
  }
}
```

```
//XOR gate
void setup()
{
  pinMode(6,INPUT);
  pinMode(7,INPUT);
  pinMode(8, OUTPUT);
}

void loop(){
  int x=digitalRead(7);
  int y=digitalRead(6);

  if (x==y){
    digitalWrite(8,LOW);
  }
  else{
    digitalWrite(8,HIGH);
  }
}
```

```
//NAND GATE
void setup()
{
  pinMode(6,INPUT);
  pinMode(7,INPUT);
  pinMode(8, OUTPUT);
}

void loop()
{
  if (digitalRead(7)==1 && digitalRead(6)==1){
    digitalWrite(8,LOW);
  }
  else{
    digitalWrite(8,HIGH);
  }
}z
```

Assignment 2-A (TRUTH TABLE VERIFICATION OF IC 74HC08 and IC 74H73)





Assignment 3-A (LAST DIGIT OF ROLL NUMBER)

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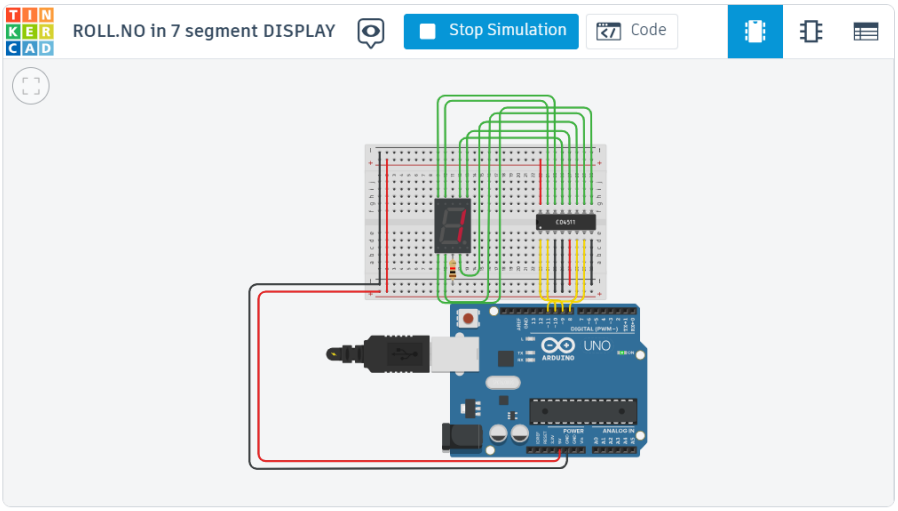
ROLL.NO in 7 segment DISPLAY

React 0



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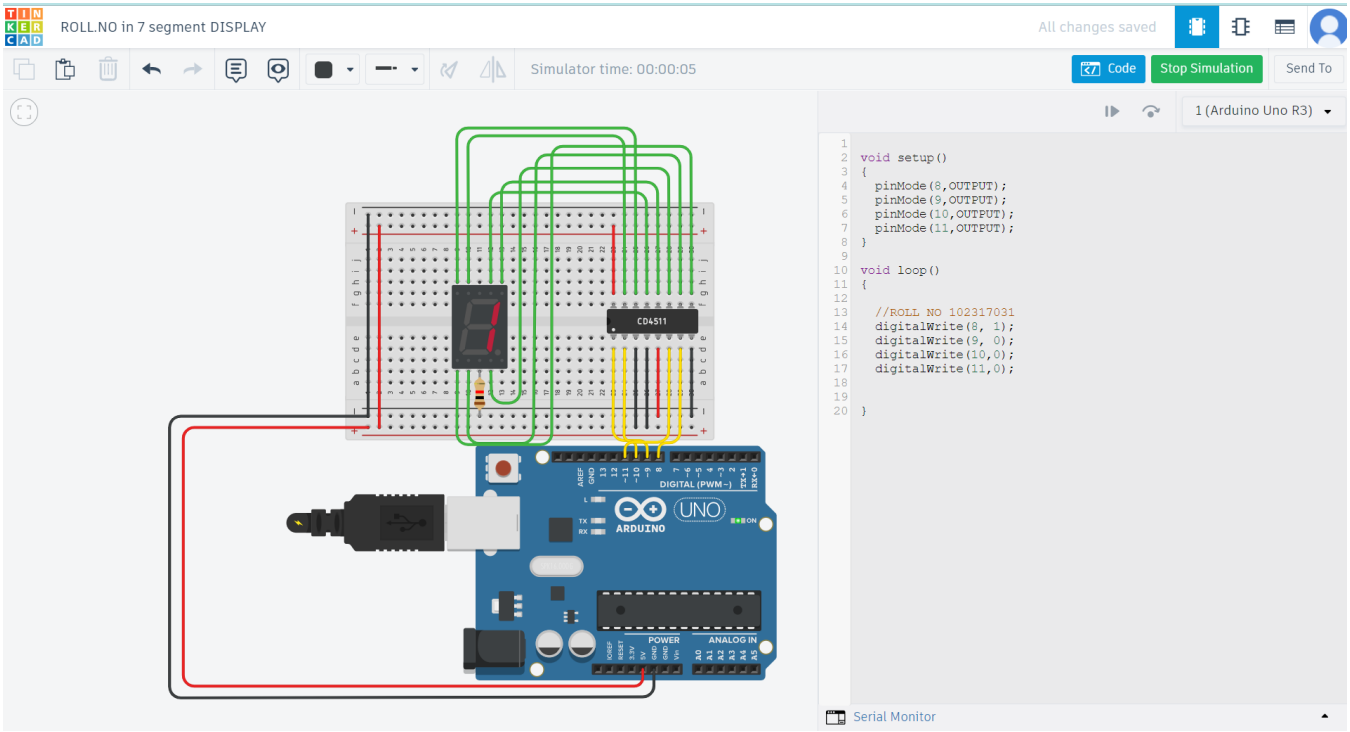
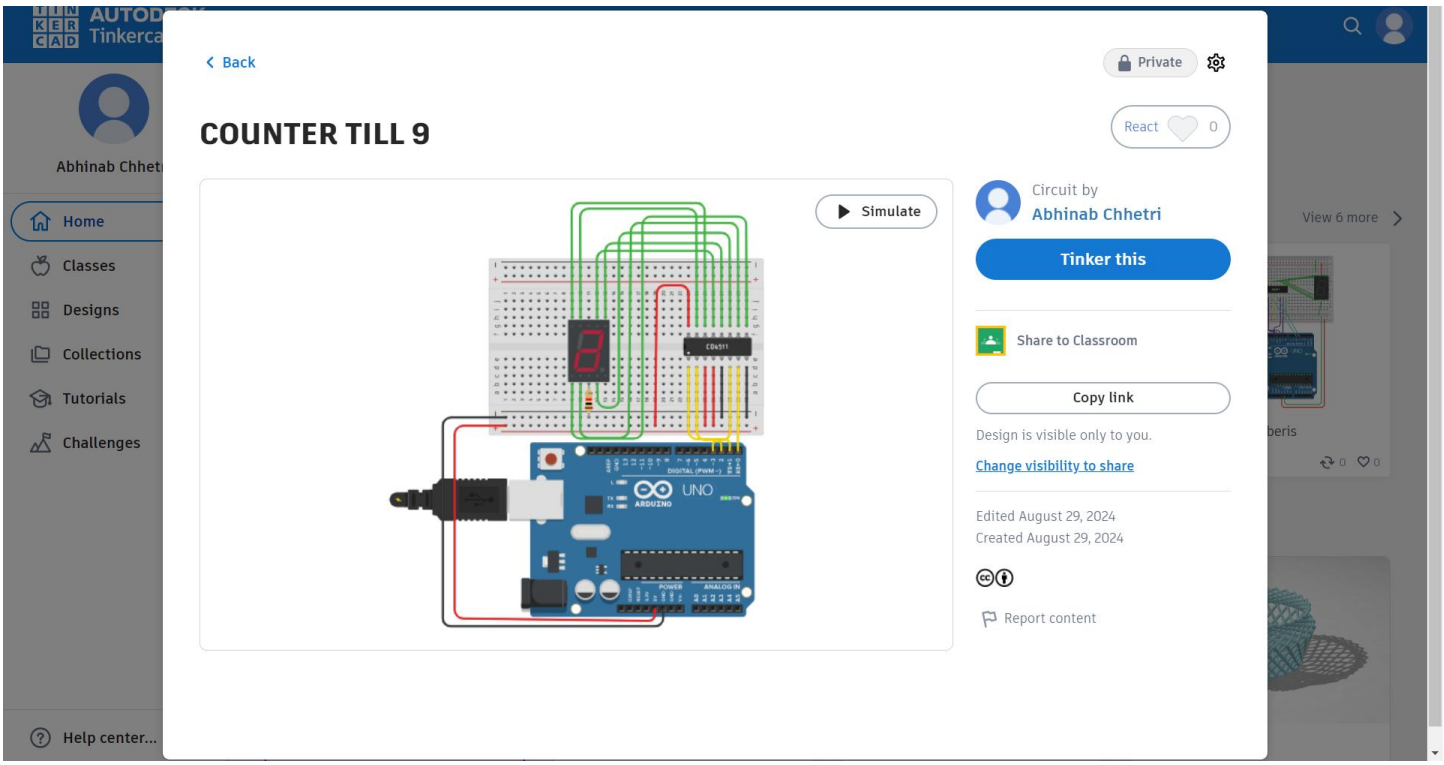
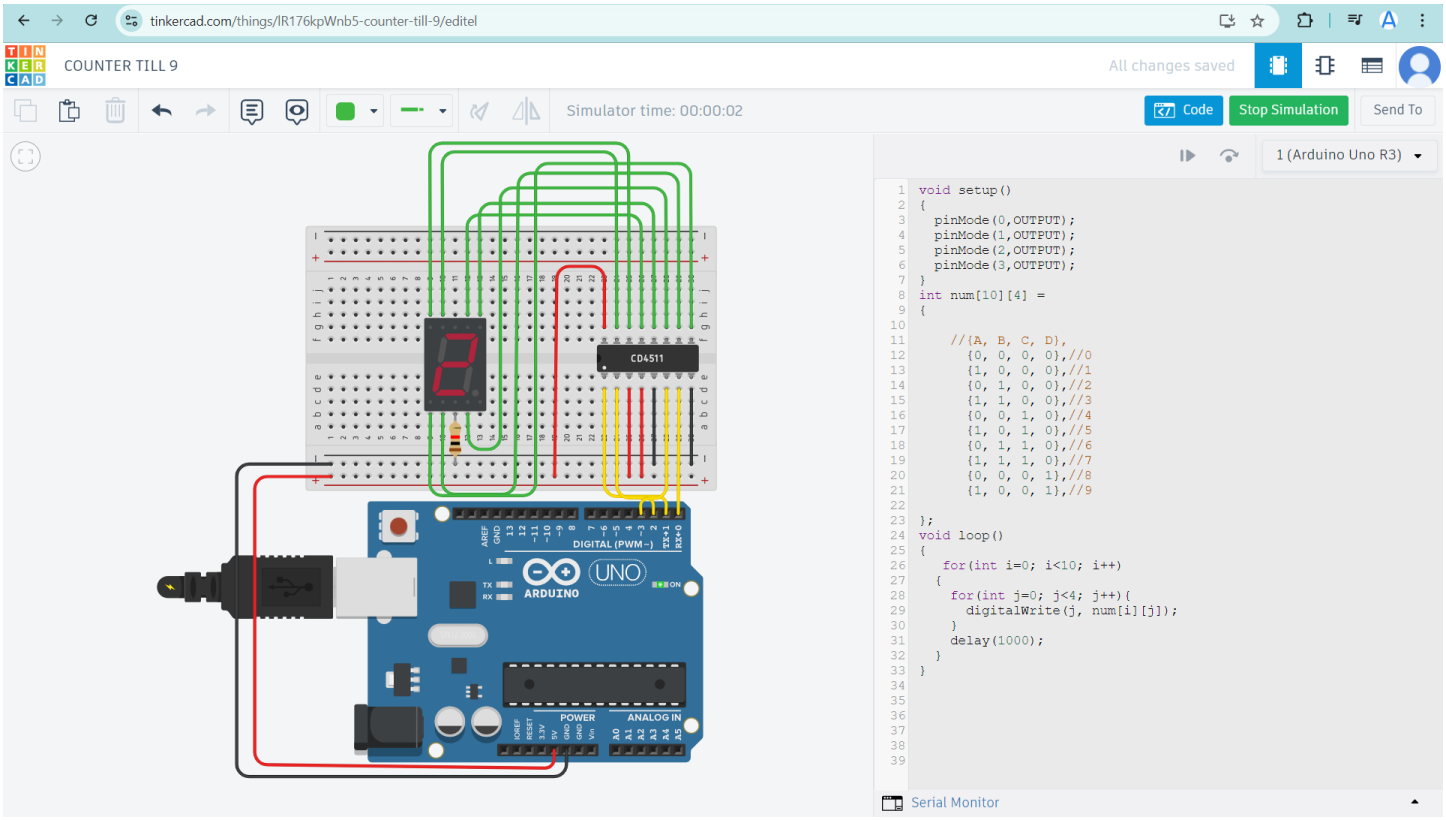


Assignment 3-B (ONE DISPLAY COUNTER)






```
void setup()
{
  pinMode(0,OUTPUT);
  pinMode(1,OUTPUT);
  pinMode(2,OUTPUT);
  pinMode(3,OUTPUT);
}
int num[10][4] =
{

    //{A, B, C, D},
      {0, 0, 0, 0},//0
      {1, 0, 0, 0},//1
      {0, 1, 0, 0},//2
      {1, 1, 0, 0},//3
      {0, 0, 1, 0},//4
      {1, 0, 1, 0},//5
      {0, 1, 1, 0},//6
      {1, 1, 1, 0},//7
      {0, 0, 0, 1},//8
      {1, 0, 0, 1},//9

};
void loop()
{
   for(int i=0; i<10; i++)
   {
     for(int j=0; j<4; j++){
       digitalWrite(j, num[i][j]);
     }
     delay(1000);
   }
}
```