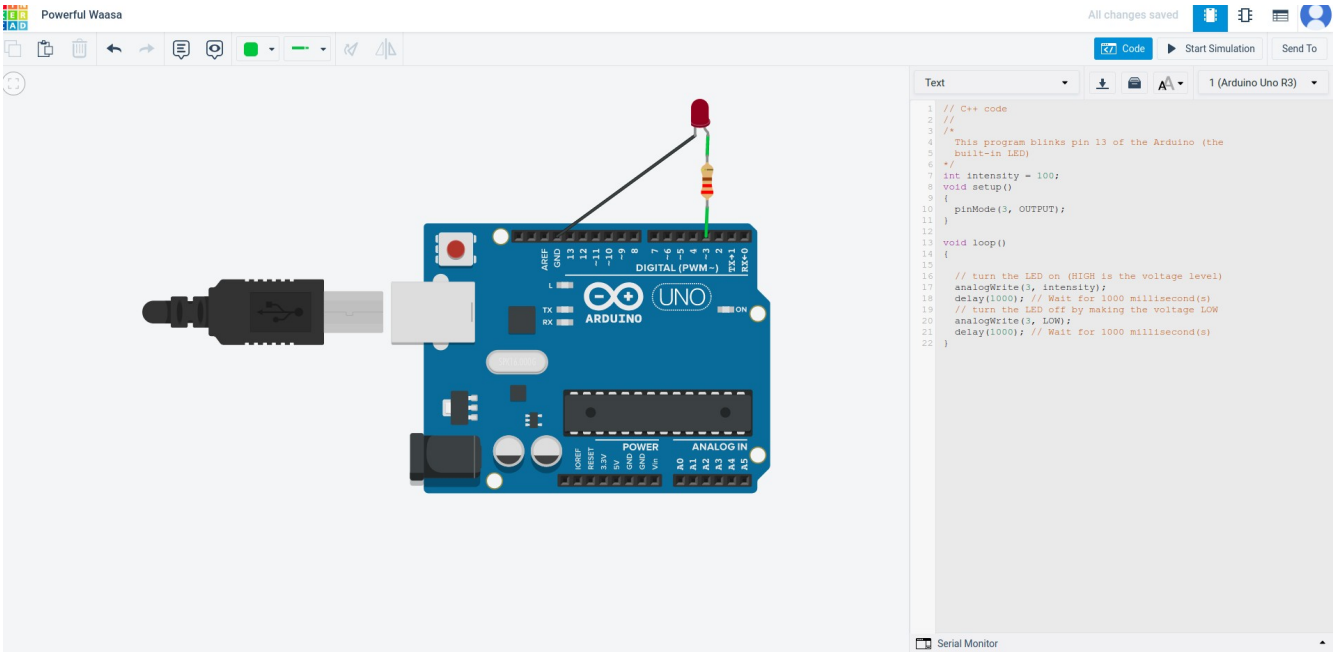
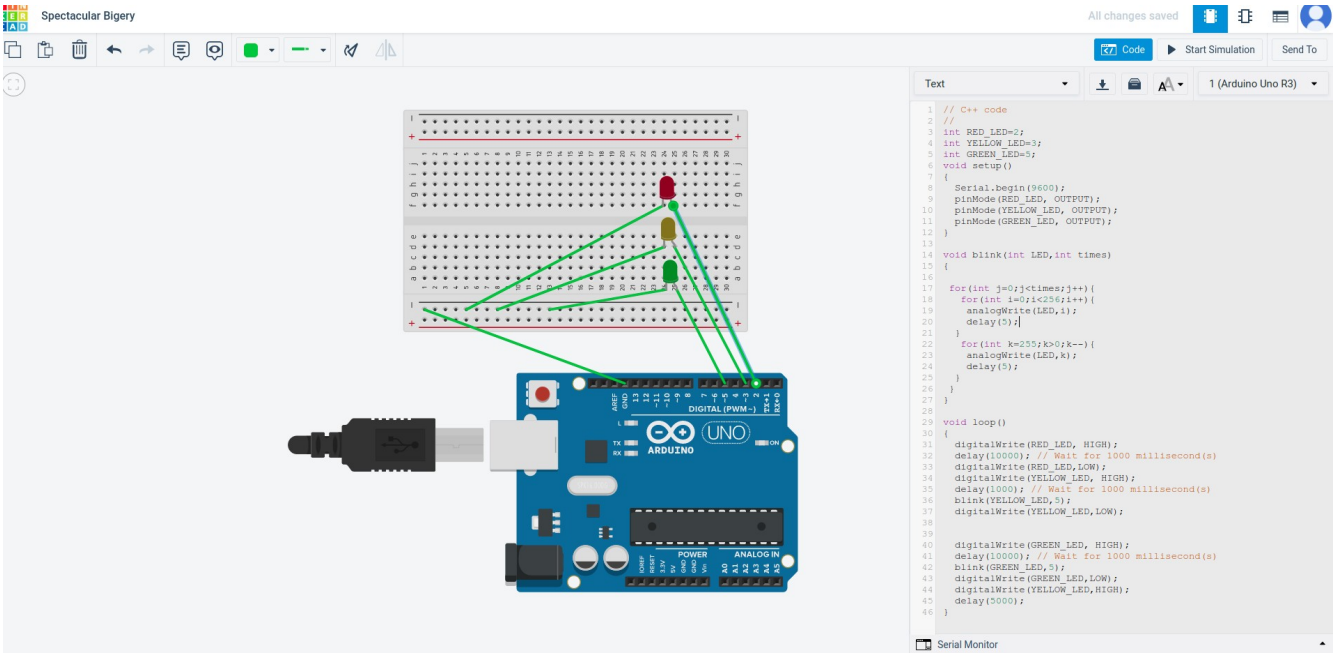
SCS 2213 – Electronics and Physical Computer
Practical 02
20002025

Pulse wide modulation. (PWM)

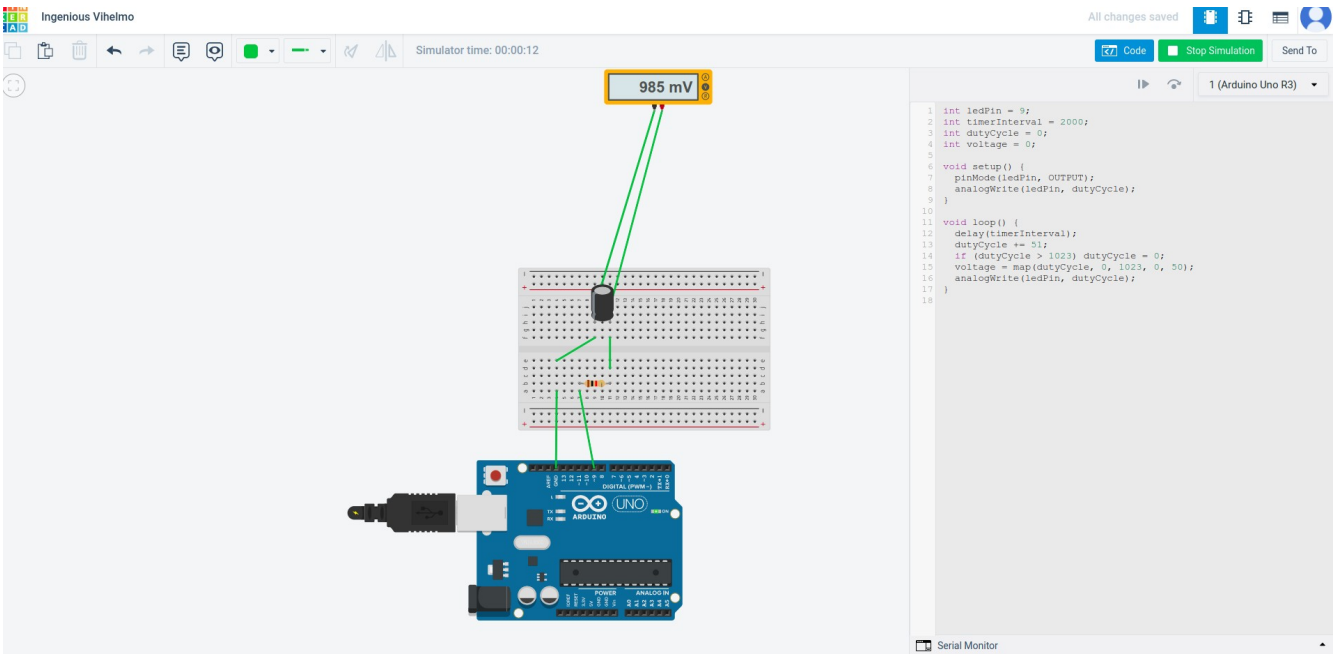
Task 01



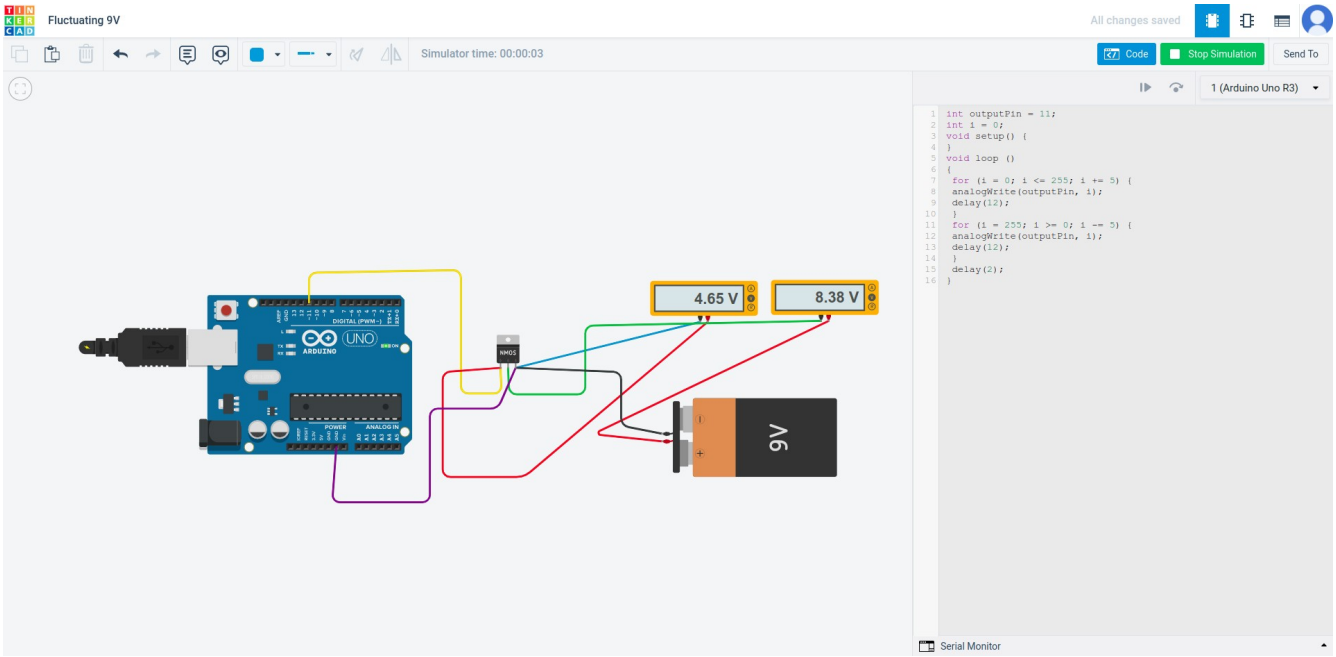
Task 02

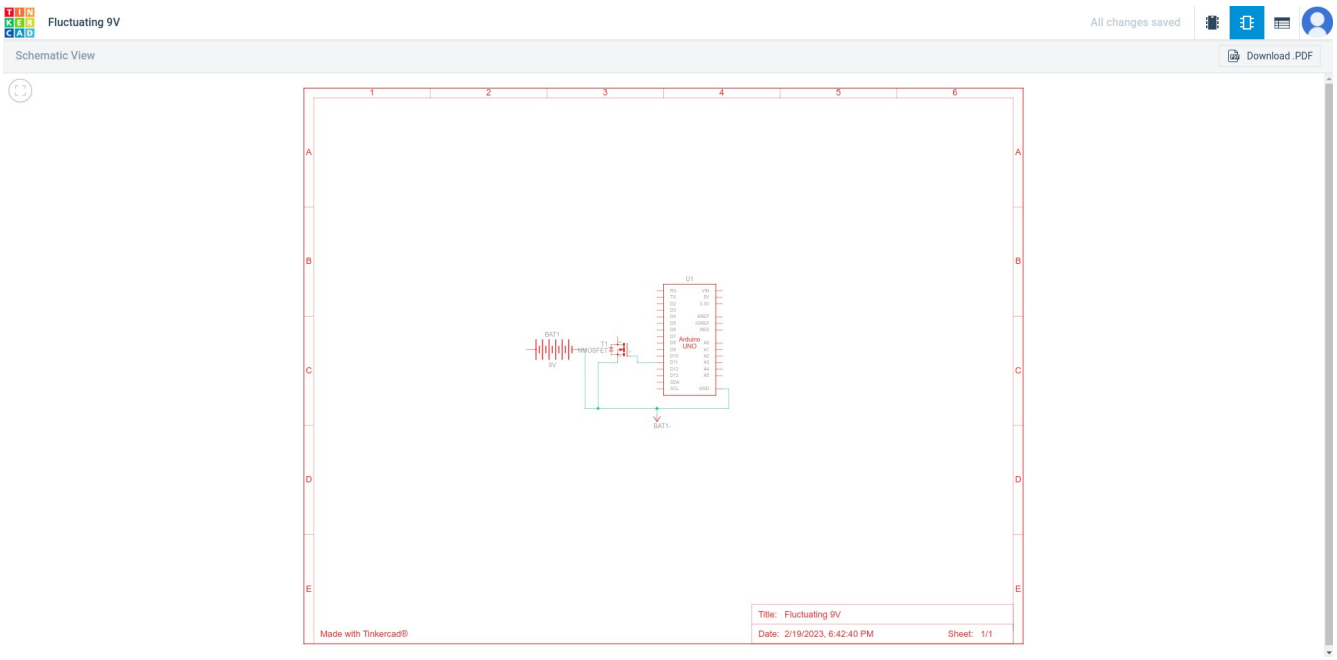


Task 03



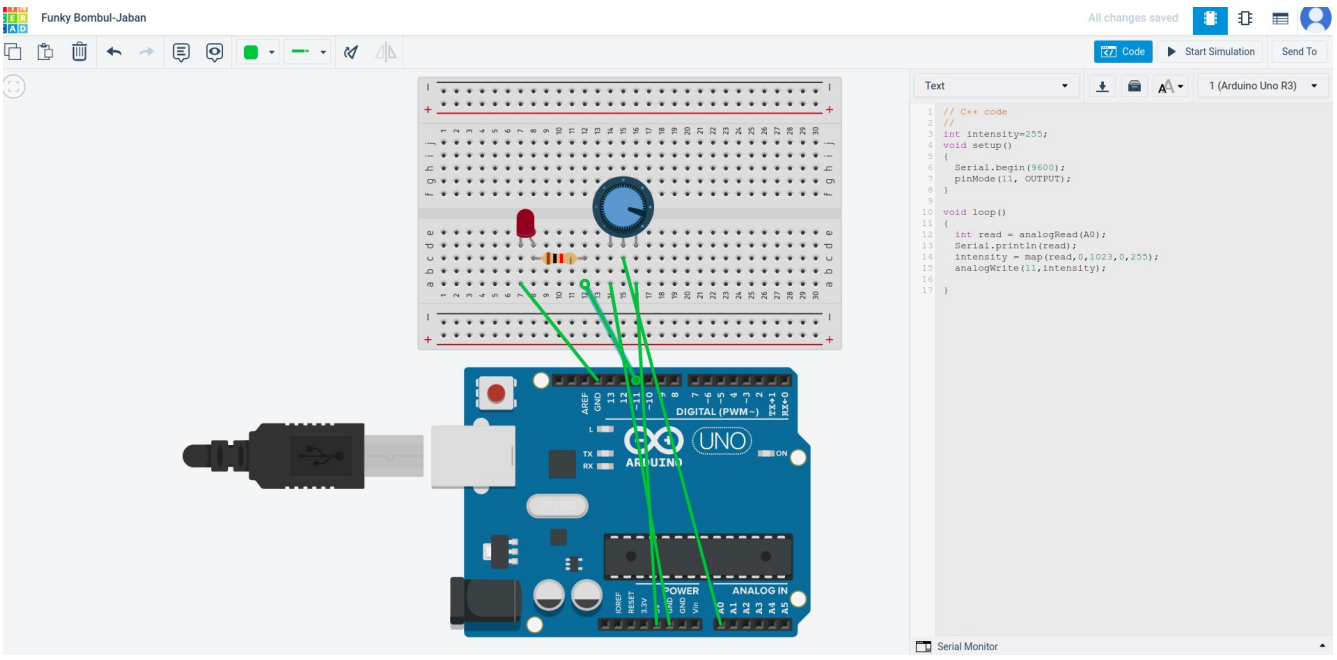
Task 04



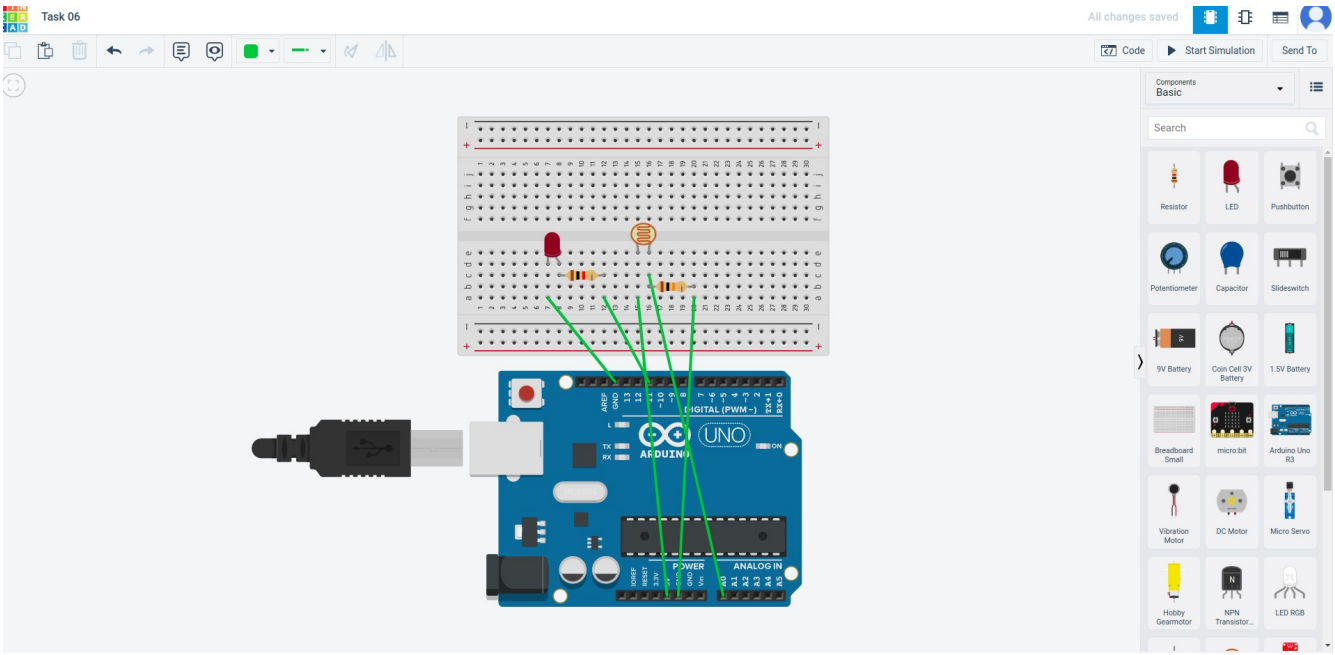


Analog to digital converter (ADC)

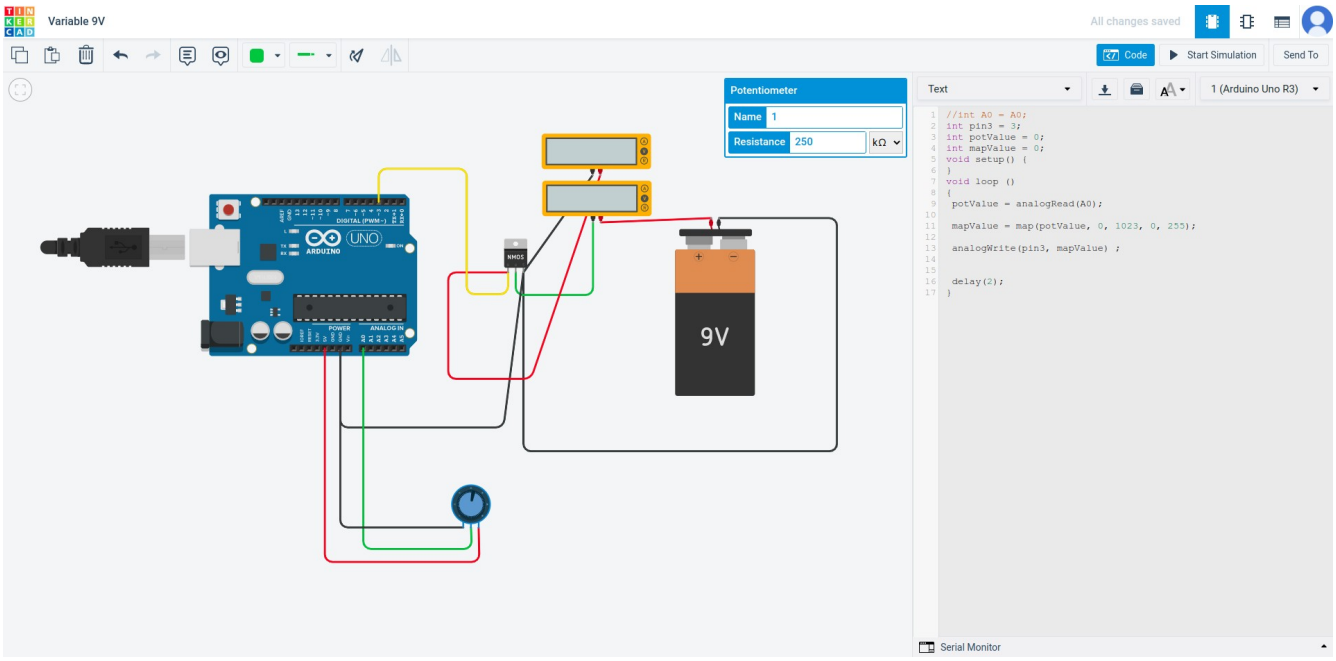
Task 01



Task 02


Task 06
All changes saved
Code
Start Simulation
Send To
Components
Basic
Search
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V Battery
Coin Cell 3V Battery
1.5V Battery
Breadboard Small
micro:bit
Arduino Uno R3
Vibration Motor
DC Motor
Micro Servo
Hobby Gearmotor
NPN Transistor
LED RGB
UNO
ARDUINO
POWER
ANALOG IN

Task 03


Variable 9V
All changes saved
Code
Start Simulation
Send To
Potentiometer
Name 1
Resistance 250
kΩ
Text
1 (Arduino Uno R3)
//int A0 = A0;
int pin3 = 3;
int potValue = 0;
int mapValue = 0;
void setup() {
}
void loop ()
{
potValue = analogRead(A0);
mapValue = map(potValue, 0, 1023, 0, 255);
analogWrite(pin3, mapValue) ;
delay(2);
}
NMOS
9V
UNO
ARDUINO
Serial Monitor

Variable 9V

All changes saved

Schematic View

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