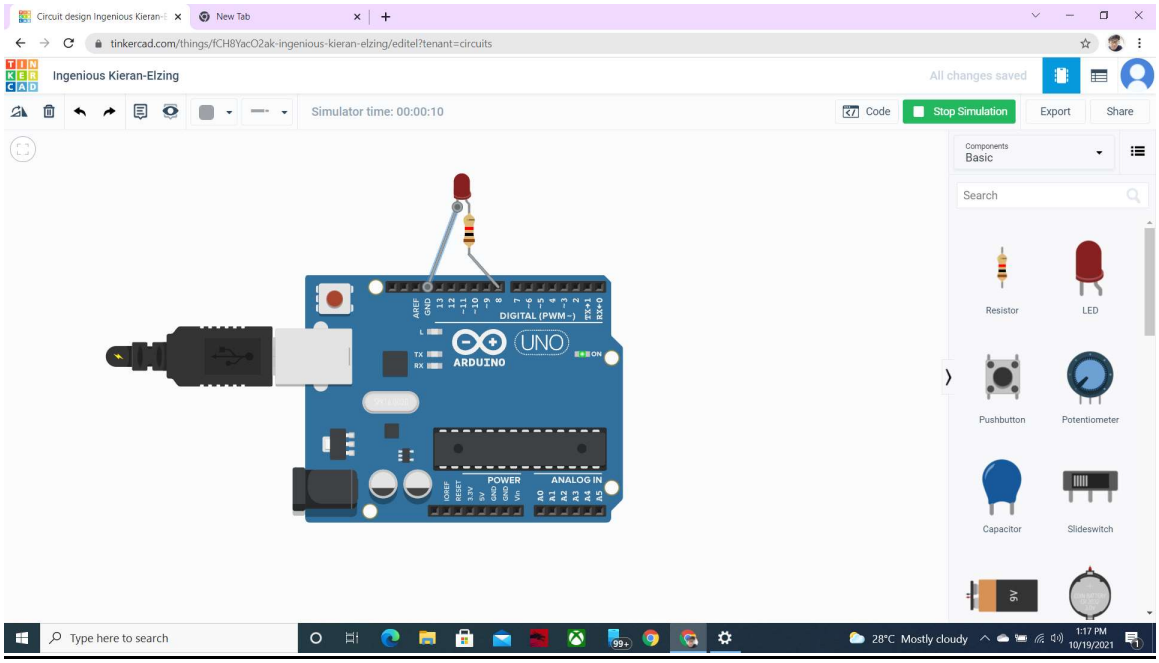
NAME:RYUHMO CHOZAH

Roll no:BT17CS011

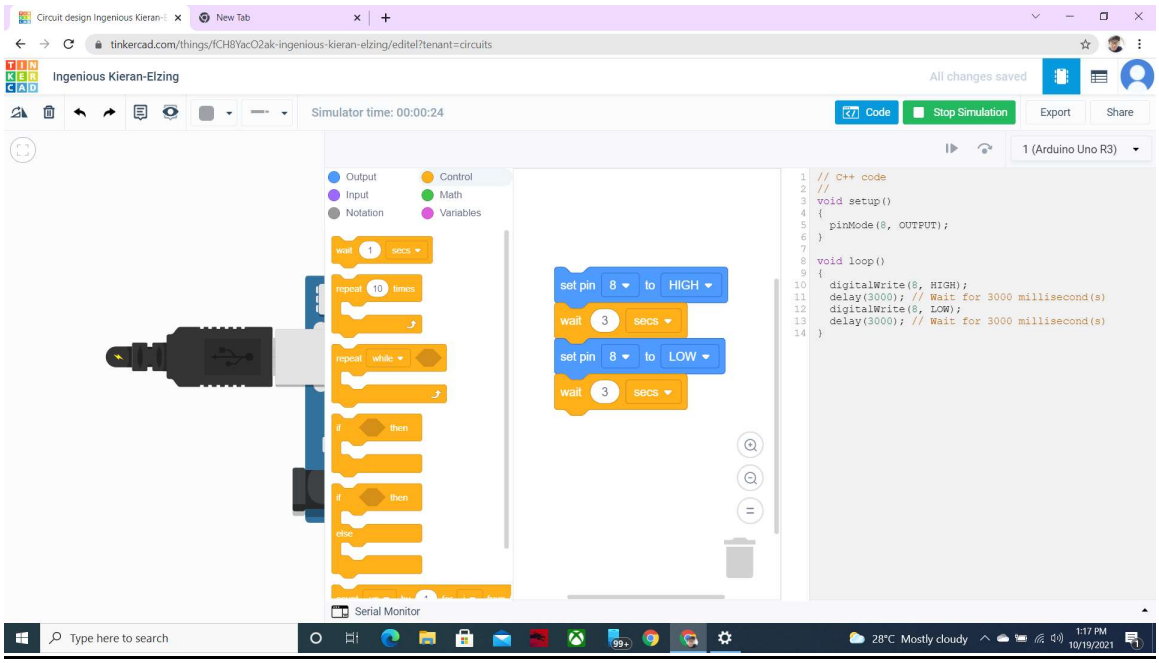
EMEDDED SYSTEM LAB ASSIGNMENT-1

1.Simple LED blinking using Arduino board.

OUTPUT

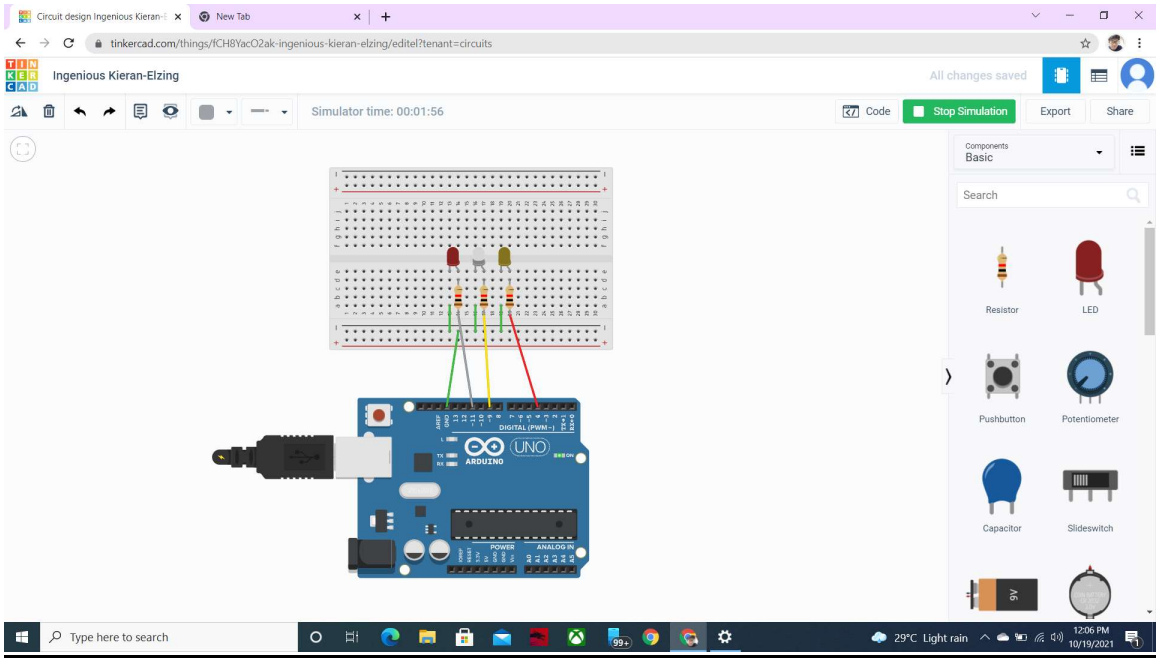


CODE:

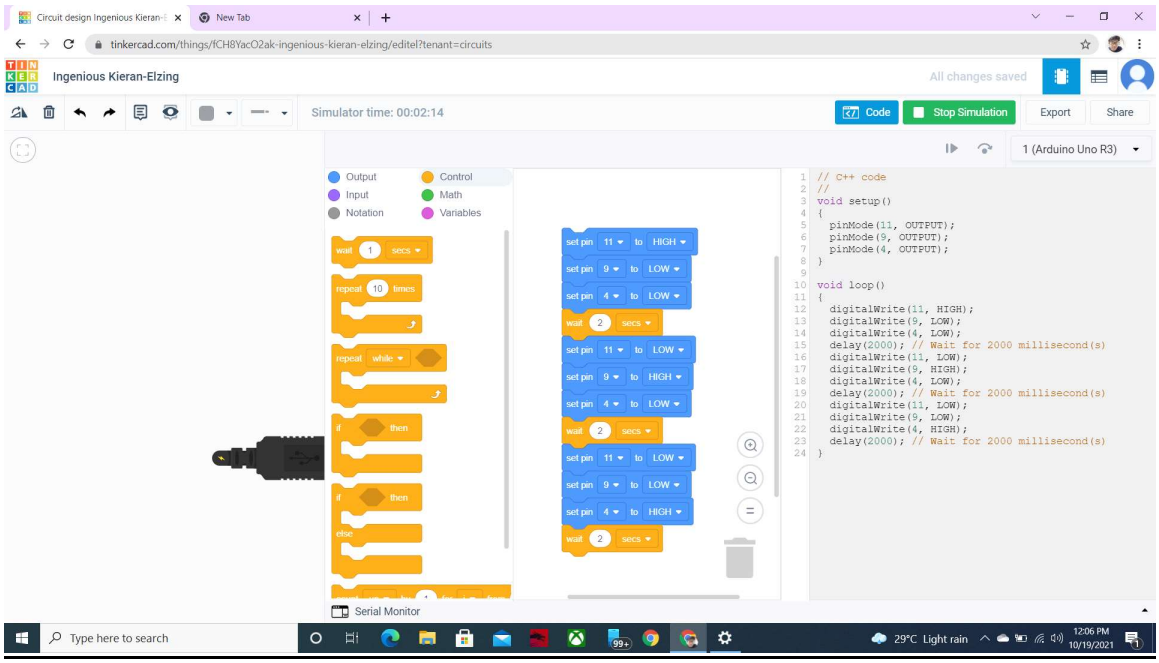


2. Implementation of simple traffic light control circuit using time delay.

OUTPUT:

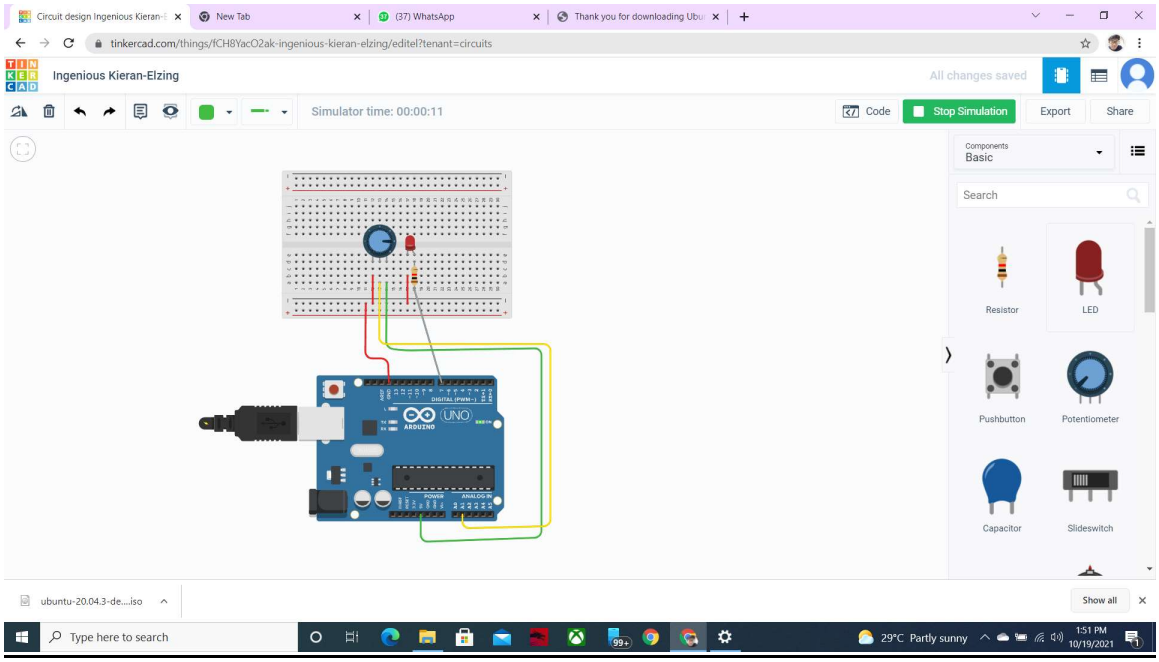


CODE:

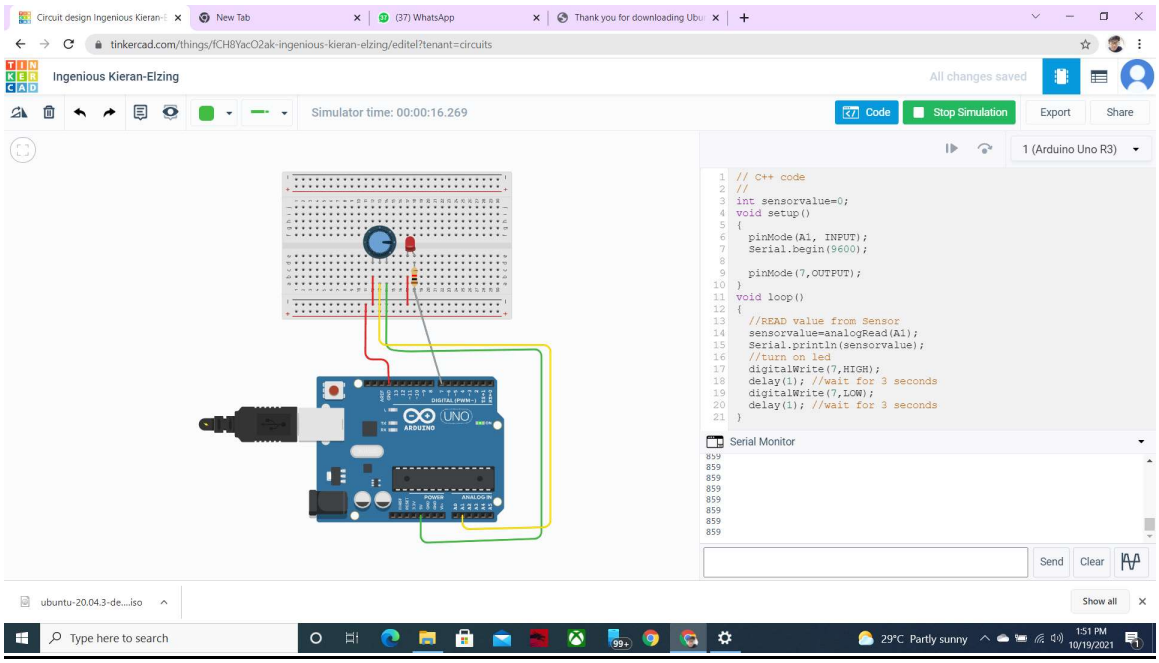


3. Implementation LED blinking frequency control using Potentiometer.

OUTPUT:

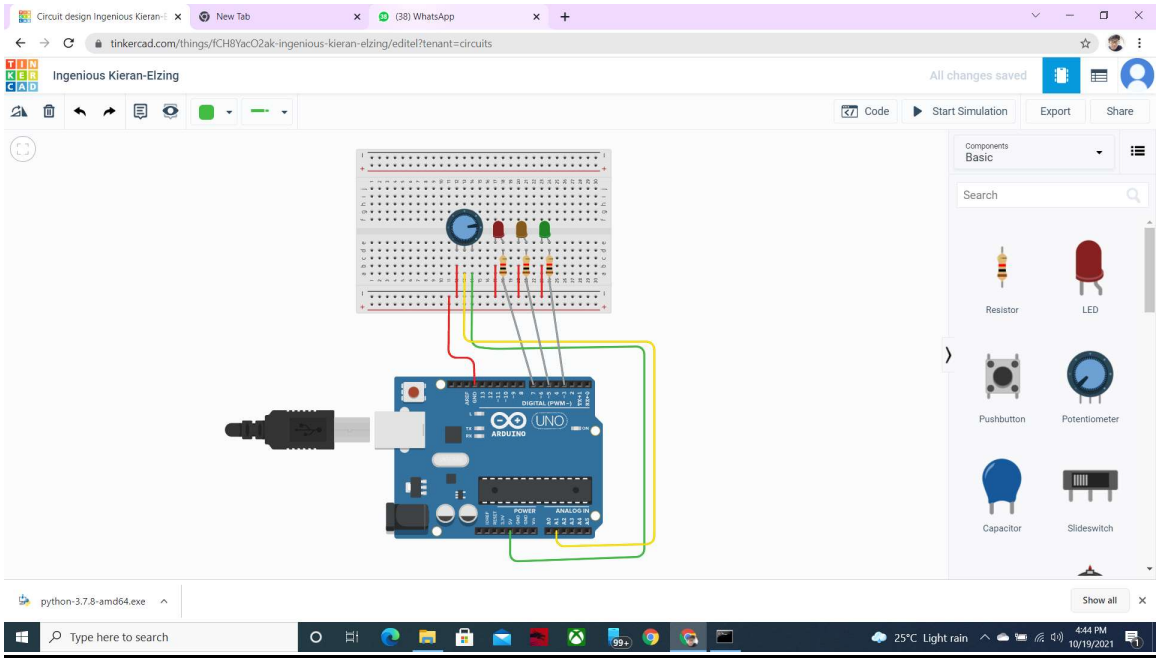


CODE:

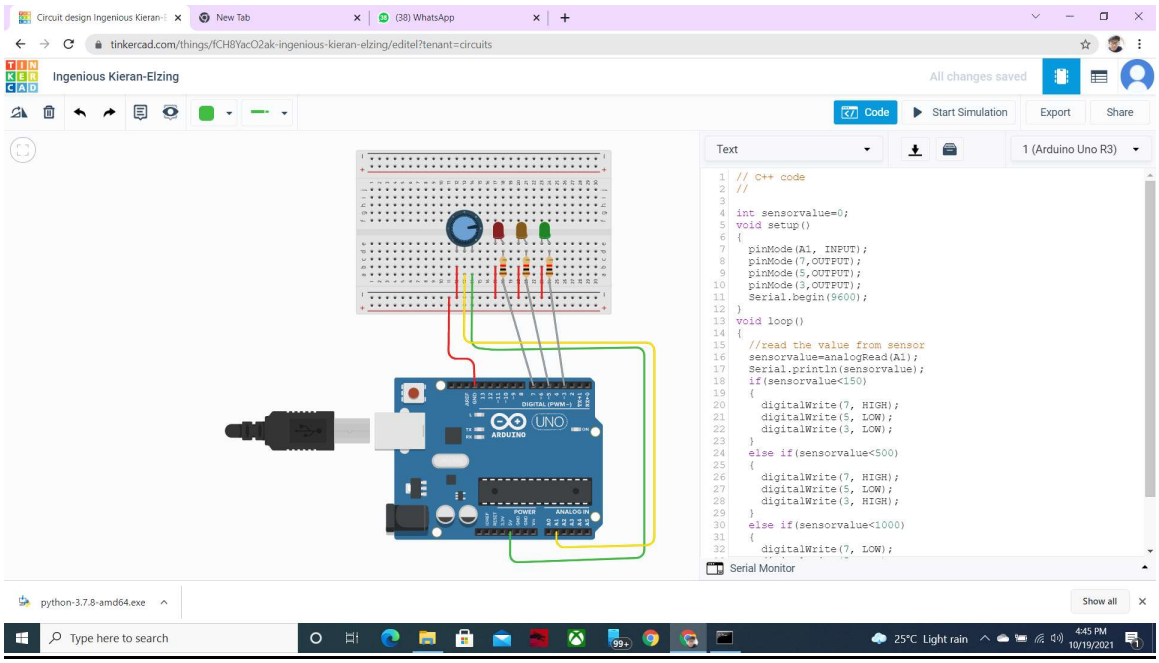


4.Implementation of Simple Light Control Circuit using Potentiometer.

OUTPUT:



CODE: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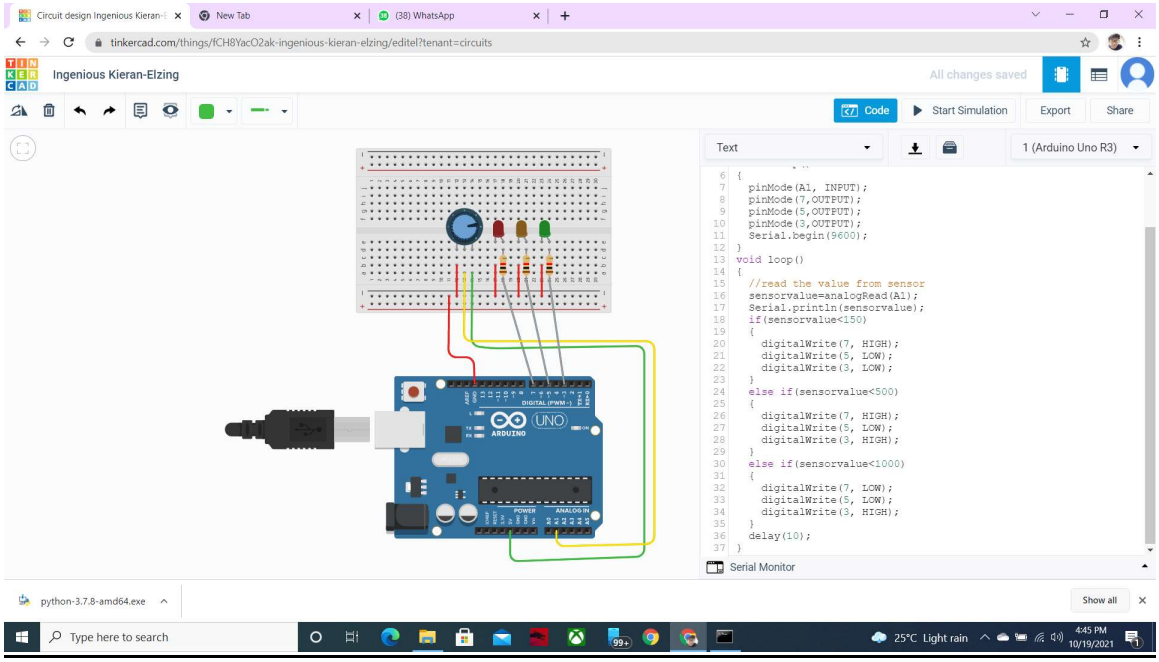
(38) WhatsApp
tinkercad.com/things/fCH8YacO2ak-ingenious-kieran-elzing/editel?tenant=circuits
Ingenious Kieran-Elzing
All changes saved
Code
Start Simulation
Export
Share
Text
1 (Arduino Uno R3)
// C++ code
//
int sensorvalue=0;
void setup()
{
pinMode(A1, INPUT);
pinMode(7,OUTPUT);
pinMode(5,OUTPUT);
pinMode(3,OUTPUT);
Serial.begin(9600);
}
void loop()
{
//read the value from sensor
sensorvalue=analogRead(A1);
Serial.println(sensorvalue);
if(sensorvalue<150)
{
digitalWrite(7, HIGH);
digitalWrite(5, LOW);
digitalWrite(3, LOW);
}
else if(sensorvalue<500)
{
digitalWrite(7, HIGH);
digitalWrite(5, LOW);
digitalWrite(3, HIGH);
}
else if(sensorvalue<1000)
{
digitalWrite(7, LOW);
Serial Monitor
python-3.7.8-amd64.exe
Show all
Type here to search
25°C Light rain
4:45 PM
10/19/2021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(38) WhatsApp
tinkercad.com/things/fCH8YacO2ak-ingenious-kieran-elzing/editel?tenant=circuits
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All changes saved
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digitalWrite(5, LOW);
digitalWrite(3, LOW);
}
else if(sensorvalue<500)
{
digitalWrite(7, HIGH);
digitalWrite(5, LOW);
digitalWrite(3, HIGH);
}
else if(sensorvalue<1000)
{
digitalWrite(7, LOW);
digitalWrite(5, LOW);
digitalWrite(3, HIGH);
}
delay(10);
}
Serial Monitor
python-3.7.8-amd64.exe
Show all
Type here to search
25°C Light rain
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10/19/2021