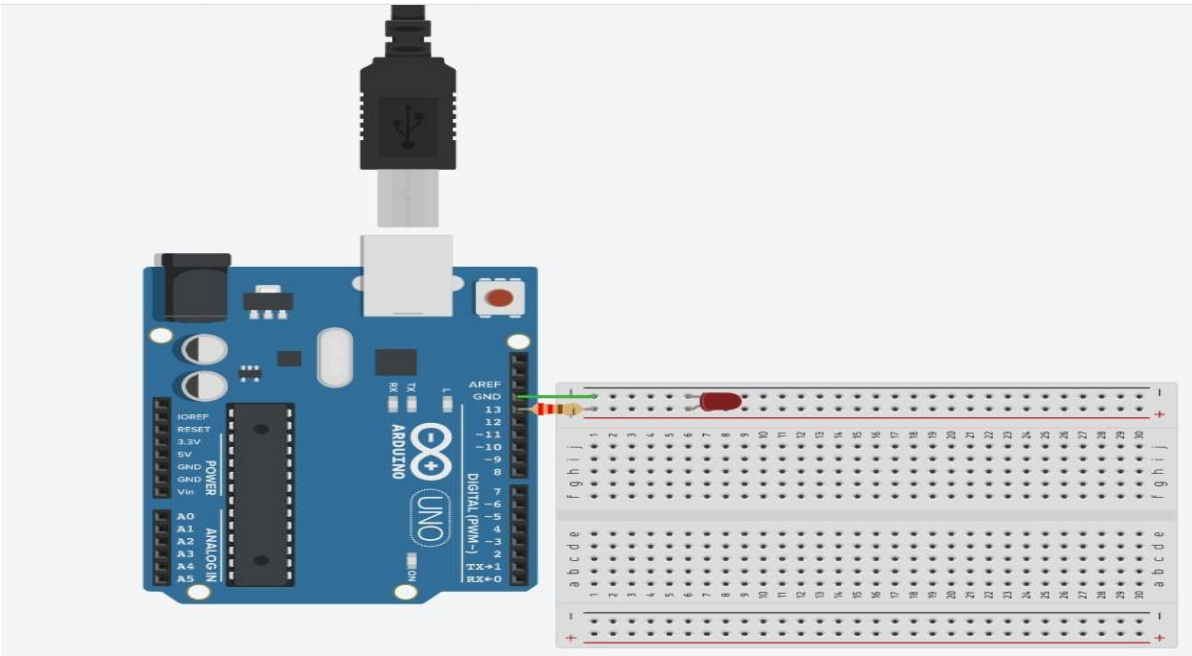
Name: **Shashank Bagda**	**Roll Number:** 92100133020
Subject Name and Code: **FSSI – 01CT1103**	**Date of Experiment:** 27-11-21

Task:
Blinking an LED using the Arduino Board.

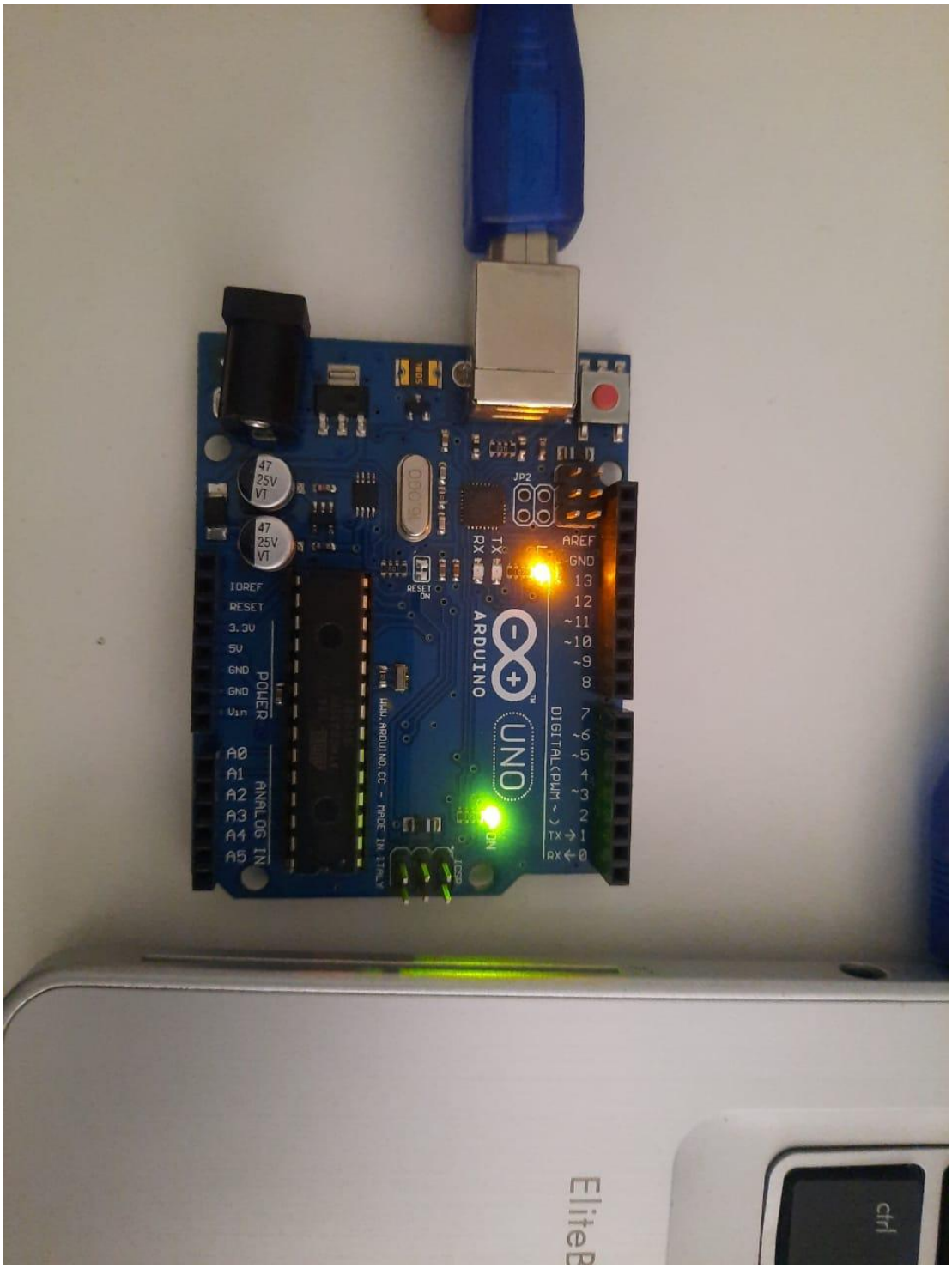
Components:
Arduino UNO, Resistor, Bread Board, Jumper Wire (Male-Male), LED

About the Project:
To blink the LED at a specific time interval. We have to connect the led with jumper wire to the arduino uno board. After that we have to give power supply to the arduino board. Now to blink the led at a defined time interval we have to upload a code and make a organised circuit. Now to protect the led we have to use the resistor of 220ohm. Now connect the positive terminal of led with resistor and resistor to the D13 pin of the Arduino UNO. Now connect the negative terminal of LED to the ground of the Arduino. Follow the below schematics and arrange all the components as mentioned. After arranging the components upload the following given code using Arduino IDE to the Arduino Board and check whether the circuit works successfully or not.

Schematic:



Output: (your circuit implementation and its working photo)



Code:

```
void setup()
{
  pinMode(13, OUTPUT);
}
```

```
void loop()
{
  digitalWrite(13, HIGH);
  delay(1000);
  digitalWrite(13, LOW);
  delay(1000);
}
```

Application:
Blinking LED can be used in Traffic Lights, Battery Indicator, Indicator Lights of Vehicles, Party Lights, etc.

Conclusion:
By doing this experiment we got an experience of the very basic arduino project of blinking the led. This project is very useful in our day to day life. We can utilize this circuit in many different ways like for decoration purpose, In indicating or blinking bulbs, etc. By using a proper resistor we can protect the led and can increase the life of the led. When we upload the given code to the arduino board and complete the following the circuit in a proper manner the led will blink at a time interval of 1 second. It will turn ON for 1 second and turn OFF for 1 second. By doing this task we get to know another way to use the arduino board in a well defined way.
Thank you,
Yours sincerely
Shashank Bagda