Industrial Applications of Microcontrollers – A Practice Based Approach

TASK – 2

Assume that you are an embedded engineer working on a simple microcontroller project. Your task is to write an embedded C code that turns on an LED when a button switch is pressed. The LED should remain on as long as the button is pressed and should turn off when the button is released.
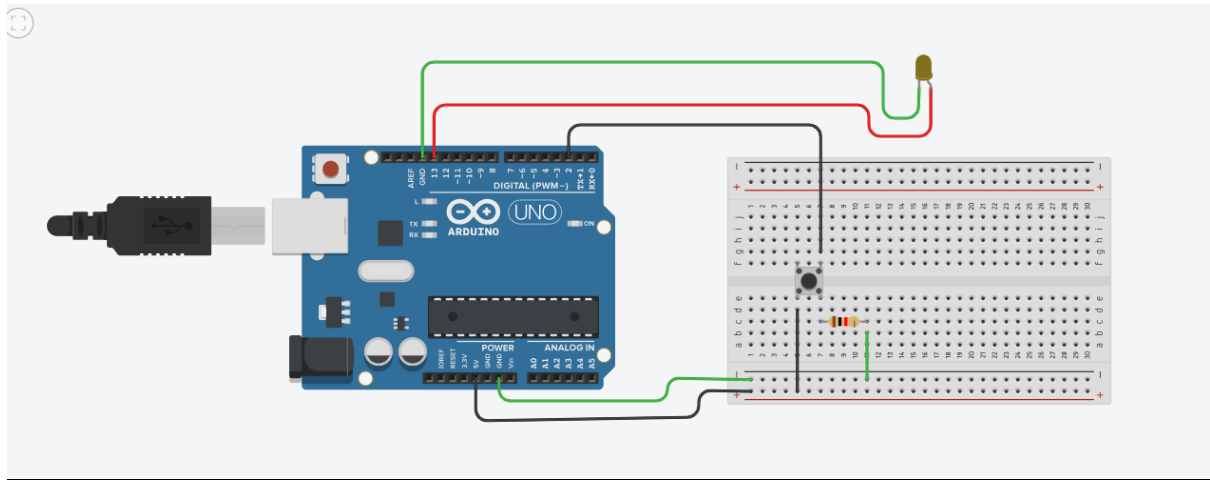
Submitted By – Renubala Shadangi

Roll No. – 23BEEN0025

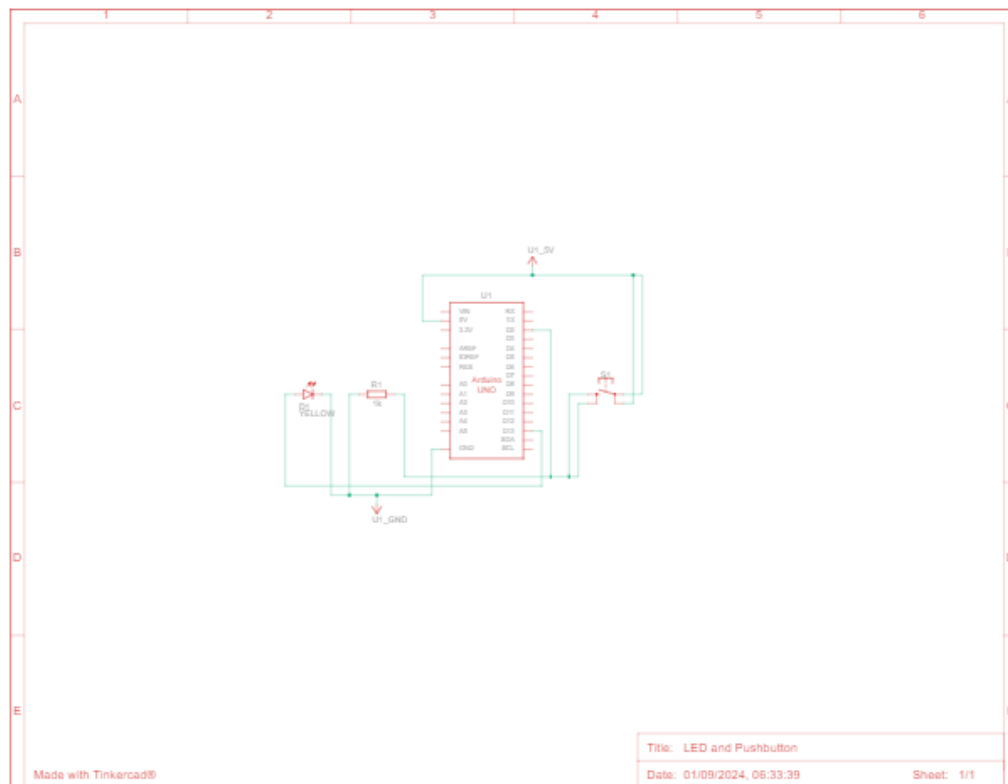Department of Electronics and Communication Engineering

JECRC University, Jaipur

LED and Pushbutton on Microcontroller

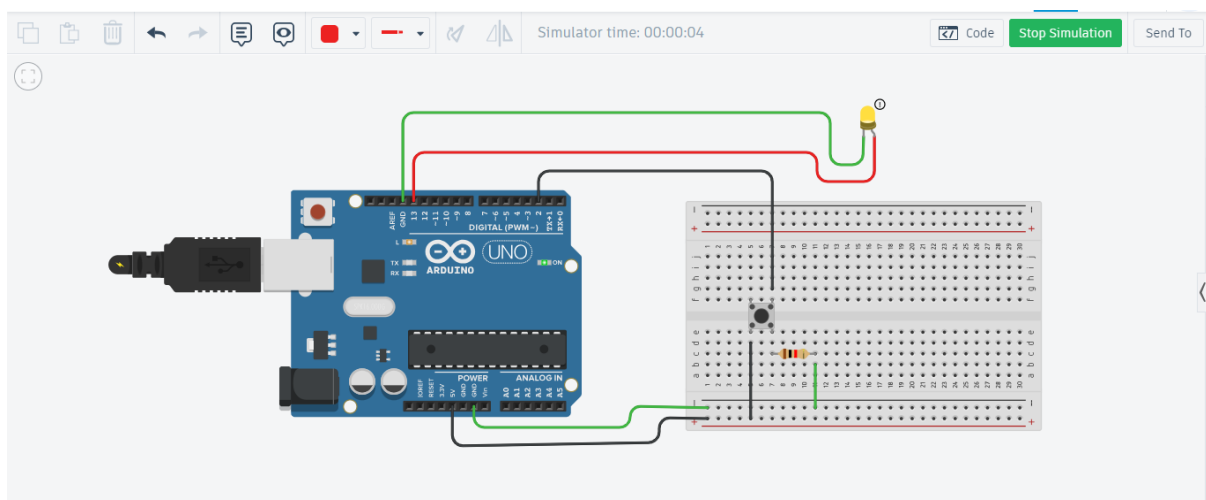LED and pushbutton circuit with Arduino UNO R3

Circuit Diagram for the project

CODE for the working of LED when the switch is pressed

```
void setup()
{
  pinMode(2, INPUT);
  pinMode(13, OUTPUT);
}

void loop()
{
 if(digitalRead(2) == HIGH)
 {
   digitalWrite(13, HIGH);
 }
 else
 {
   digitalWrite(13, LOW);
 }
}
```


LED is on when the switch is pressed