Experiment No. 2

Aim: To investigate digital input processing by utilizing tactile switch interfacing to control Light Emitting Diode (LED) states.

Apparatus: Wokwi Simulator

Circuit Layout:

Theory:

LED:

**To be completed by the student

Push Button:

**To be completed by the student

Code used:

To blink an LED

To blink an LED using tactile switch

```
/*

void loop() {
  // Read the state of the button
  buttonState = digitalRead(buttonPin);

  // Check if the button is pressed
  if (buttonState == HIGH){
    digitalWrite(ledPin, HIGH);   // Turn LED on.
  } else {
    digitalWrite(ledPin, LOW);    // Turn LED off.
  }
}
```

Simulation Outcome:

Result:

**To be completed by the student