**Internet of Things**

**Lab Practical No. 4**

**Code :**

# Led Blinking Using Blynk app

import BlynkLib

import RPi.GPIO as GPIO

BLYNK\_AUTH\_TOKEN = '6f\_xcXVsPKdOIDa3qLWzjxHC9v1gXPM'

led1 = 18

led2 = 19

GPIO.setmode(GPIO.BCM)

GPIO.setup(led1, GPIO.OUT)

GPIO.setup(led2, GPIO.OUT)

# Initialize Blynk

blynk = BlynkLib.Blynk(BLYNK\_AUTH\_TOKEN)

# Led control through V0 virtual pin

@blynk.on("V0")

def v0\_write\_handler(value):

if int(value[0]) != 0: # Corrected the comparison

GPIO.output(led1, GPIO.HIGH)

print('LED1 HIGH')

else:

GPIO.output(led1, GPIO.LOW)

print('LED1 LOW')

# Led control through V1 virtual pin

@blynk.on("V1")

def v1\_write\_handler(value):

if int(value[0]) != 0: # Corrected the comparison

GPIO.output(led2, GPIO.HIGH)

print('LED2 HIGH')

else:

GPIO.output(led2, GPIO.LOW)

print('LED2 LOW')

# Function to sync the data from virtual pins

@blynk.on("connected")

def blynk\_connected():

print("Raspberry Pi Connected to New Blynk")

try:

while True:

blynk.run()

except KeyboardInterrupt:

print("Exiting program...")

GPIO.cleanup() # Clean up GPIO on program exit