**Write python code for blinking LED and Traffic lights for Raspberry pi.**

ASSIGNMENT 3

**Solution:**

import RP1.GPIO as GP10

import time

GPIO. setmode(GPIO.BOARD)

GPIO.setup(7, GPIO.OUT) #Green LED

GPIO.setup(11, GPI0.OUT)#Yellow LED

GPIO.setup(13, GPI0.OUT) #Red LED

GPI0.setup(15, GP10.IN, pull\_up\_down=GPIO.PUD\_UP)#Button

def turn\_on(pin, seconds):

GPIO.output (pin,GPIO.HIGH)

time.sleep(seconds)

def turn\_off (pin, seconds):

GPIO.output (pin, GPIO.LOW)

time.sleep(seconds)

try:

while True:

button\_state=GPIO.input (15)

if button\_state== True:

turn\_on(13,2)

tum\_off(13,.1)

turn\_on(7,4)

turn\_off(7,.11)

turn\_on(11,1)

turn\_off(11,1)

else:

if button\_state== False:

GPI0.output (7,GPIO.LOW)

GPIO.output(11,GPIO.LOW)

GP10.output (13,GPIO.LOW)

time.sleep(.1)

except KeyboardInterrupt:

GPIO.cleanup()

print("Traffic Light Sequence Done")