## **ASSIGNMENT 03**

## Name:Gowtham KP

Python code for blinking LED and traffic light for Raspberry pi

```
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")