

### ASSIGNMENT – III

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

```
import RPi.GPIO as GPIO
import time

GPIO.setmode(GPIO.BOARD)
GPIO.setup(7, GPIO.OUT) #Green LED
GPIO.setup(11, GPIO.OUT)#Yellow LED
GPIO.setup(13, GPIO.OUT) #Red LED
GPIO.setup(15, GPIO.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)
turn_off(13,.1)
turn_on(7,4)
turn_off(7,.11)
```

```
turn_on(11,1)
```

```
turn_off(11,1)
```

```
else:
```

```
    if button_state== False:
```

```
        GPIO.output (7,GPIO.LOW)
```

```
        GPIO.output(11,GPIO.LOW)
```

```
        GP10.output
```

```
(13,GPIO.LOW)
```

```
time.sleep(.1) except
```

```
KeyboardInterrupt:
```

```
    GPIO.cleanup()
```