ASSIGNMENT - 3

CODE FOR LED BLINK

```
import RPi.GPIO as GPIO # RPi.GPIO can be referred as GPIO from now
import time
ledPin = 22
def setup():
   GPIO.setmode(GPIO.BOARD)
                                   # GPIO Numbering of Pins
   GPIO.setup(ledPin, GPIO.OUT)
                                  # Set ledPin as output
   GPIO.output(ledPin, GPIO.LOW) #Set ledPin to LOW to turn Off the LED
def loop():
   while True:
       Print 'LED on'
       GPIO.output(ledPin, GPIO.HIGH)
       time.sleep(1.0)
       print 'LED off'
       GPIO.output(ledPin, GPIO.LOW)
       time.sleep(1.0)
def endprogram():
       GPIO.output(ledPin, GPIO.LOW)
      GPIO.cleanup()
                               #Releaseresources
if_name_=='_main_':
                               #Programstartsfromhere
setup()
try:
    loop()
except KeyboardInterrupt: #When 'Ctrl+C' is pressed, the destroy() will be executed.
    endprogram()
```

CODE FOR TRAFFIC LIGHT

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25,8,7)
while True:
      button.wait_for_press()
      buzzer.on()
      light.green.on()
      sleep(1)
      lights.amber.on()
      sleep(1)
      lights.red.on()
      sleep(1)
      lights.off()
      buzzer.off()
```