## **ASSIGNMENT 3**

## PYTHON CODE FOR BLINKING LED using raspberry pi

```
import RPi.GPIO as GPIO
import time
redLED = 2
GPIO.setmode(GPIO.BCM)
try:
 while True:
   GPIO.setup(redLED, GPIO.OUT)
   GPIO.output(redLED, True)
   time.sleep(0.9)
   GPIO.output(redLED, False)
   time.sleep(0.9)
finally:
 GPIO.cleanup()
PYTHON CODE FOR TRAFFIC LIGHT using raspberry pi.
IS_REGULAR = True
def regular():
  while True:
    if not GPIO.input(channel) and not IS_REGULAR:
      for col in [red, yel, gre]:
        col.on()
        sleep(2)
        col.off()
        if not IS_REGULAR: break
def callback(channel):
  global IS_REGULAR
```

```
IS_REGULAR = False
print('Emergency vehicle detected')
red.off()
yel.off()
gre.on()
sleep(5)
gre.off()
IS_REGULAR = True
```