ASSIGNMENT-3

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

BLINKING LED:

```
#blink.py
import time
import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BCM)
GPIO.setup(4,GPIO.OUT)
GPIO.output(4,True)
time.sleep(2)
GPIO.output(4,False)
```

OR

```
import RPi.GPIO as GPIO
import time
GPIO.semode(GPIO.BOARD)
GPIO.setup(11,GPIO.OUT)
GPIO.output(11,1)
time.sleep(1)
GPIO.output(11,1)
time.sleep(1)
GPIO.output(11,1)
time.sleep(1)
GPIO.output(11,0)
time.sleep(1)
GPIO.cleanup()
```

BLINKING LED AND TRAFFIC LIGHTS :

```
#!/usr/bin/python
Import time
Import RPi.GPIO as GPIO

try :
    GPIO.setmode(GPIO.BCM)
    GPIO.setwarnings(False)
    GPIO.setup(17,GPIO.OUT,initial=GPIO.HIGH) #Green LED
    GPIO.setup(27,GPIO.OUT, initial=GPIO.HIGH) #Red LED
    GPIO.setup(4,GPIO.OUT, initial=GPIO.HIGH) #Yellow LED

     #PUD_DOWN expecting a high voltage.
     GPIO.setup(22, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)

     GPIO.setup(14,GPIO.OUT, initial=GPIO.LOW) #pin of buzzer -reset to low

     While True :
          # GPIO.output(17,GPIO.HIGH)
          # GPIO.output(27,GPIO.HIGH)

          If (GPIO.input (22)==True):
               print (“button pressed”)
               print (GPIO.input (22))

               while True :
                    GPIO.output (17,GPIO.LOW)  #green on
                     time.sleep(2)
                     GPIO.output(17,GPIO.HIGH) #green off
```

```
                    time.sleep(2)
                    GPIO .output (4,GPIO.LOW) #yellow on
                     time.sleep(2)
                     GPIO.output (4,GPIO.HIGH) #yellow off

except Exception as ex :
    print ('Error occured',ex)
finally :
    GPIO.cleanup ()
```