IBM ASSIGNMENT-3

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PYTHON CODE FOR BLINKING LED WITH RASP PI

import RPi.GPIO as GPIO #python library to work with raspberrypi gpio pins

import time # to use sleep time library imported

GPIO.setmode(GPIO.BCM) # to define what type of pin mapping is used

GPIO.setwarnings(False) # not to print GPIO warning messages

GPIO.setup(14,GPIO.OUT) #pin gpio 14 is used

continuous blinking of led

while True:

print ("LED ON")

GPIO.output (14, GPIO.HIGH)

Time.sleep (1) #delay

print ("LED OFF")

GPIO.output (14, GPIO.LOW)

Time.sleep (1) #delay

PYTHON CODE FOR TRAFFIC LIGHT WITH RASP PI

import Rpi.GPIO as GPIO

import time

import signal

import sys

GPIO.setmode(GPIO.BCM)

```
GPIO.setup(9,GPIO.OUT)
GPIO.setup(10,GPIO.OUT)
GPIO.setup(11,GPIO.OUT)
def allLightsOff(signal,framer):
GPIO.output(9,False)
GPIO.output(10,False)
GPIO.output(11,False)
GPIO.cleanup()
sys.exit(0)
signal.signal(signal.SIGINT,allLightsOff)
while True:
#Red
GPIO.output(9,True)
Time.sleep(3)
#Red and amber
GPIO.output(10,True)
Time.sleep(1)
#Green
GPIO.output(9,False)
GPIO.output(10,False)
GPIO.output(11,True)
Time.sleep(5)
#Amber
GPIO.output(11,False)
```

GPIO.output(10,True)
Time.sleep(2)
#Amber off
GPIO.output(10,False)