### **Assignment 3:**

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

#### CODE:

## **Program for blinking LED:**

import RPi.GPIO as GPIO from time import sleep

GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True: # Run forever GPIO.output(8, GPIO.HIGH) sleep(1) GPIO.output(8, GPIO.LOW) sleep(1)

# **Program for Traffic Light:**

import RPi.GPIO as GPIO import time import signal import sys

# Setup GPIO.setmode(GPIO.BCM) GPIO.setup(9, GPIO.OUT) GPIO.setup(10, GPIO.OUT) GPIO.setup(11, GPIO.OUT)

# Turn off all lights when user ends demo

```
def allLightsOff(signal, frame):
  GPIO.output(9, False)
  GPIO.output(10, False)
  GPIO.output(11, False)
  GPIO.cleanup()
  sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)
# Loop forever
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 (red comes on at top of loop)
  GPIO.output(10, False)
```