## **ASSIGNMENT-III**

Assignment Date	09 October 2022
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## **QUESTION:**

Write python code for blinking LED and traffic light for Raspberry pi.

## PYTHON CODE FOR BLINKING LED:

```
import RPI.GPIO as GPIO
from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(7, GPIO.OUT, initial=GPIO.LOW)

while True:

GPIO.output(7, GPIO.HIGH)

print("LED on")

sleep(1)

GPIO.output(7, GPIO.LOW)

print("LED off")

sleep(1)
```

## **PYTHON CODE FOR TRAFFIC LIGHT:**

```
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, frame):
  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)
  # 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)GPIO.output(10, False)
  GPIO.output(11, False)
  GPIO.cleanup()
  sys.exit(0)
```