TEAM ID	PNT2022TMID36755
Project name	IoT based smart crop protection system

Assignment -3

Question:

Write a python code for blinking LED and Traffic lights for Raspberry Pi.

PROGRAM:

```python
import RPi.GPIO as GPIO
import time import os
import signal import sys

if('TRAFFIC_LIGHT_COUNTRY'inos.environ)and(os.environ['TRAFFIC_LIGHT_
C O UNTRY'] in ['UK', 'USA']):
        pattern = os.environ['TRAFFIC_LIGHT_COUNTRY'].lower() else:
        print('TRAFFIC_LIGHT_COUNTRY should be set to UK or USA')
        sys.exit(1)

# 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)
```

```python
        GPIO.output(10, False)
        GPIO.output(11, False)
        GPIO.cleanup() sys.exit(0)
        signal.signal(signal.SIGIN
        T, allLightsOff)

# Loop forever while True:
#       Red
        GPIO.output(9, True) time.sleep(3)

        # Red and amber for UK only if (pattern
        == 'uk'):
                GPIO.output(10, True) time.sleep(1)

        # Green
        GPIO.output(9, False)
        GPIO.output(10, False)
        GPIO.output(11, True) time.sleep(5)

        # Amber, longer in US than UK
        GPIO.output(11, False)
        GPIO.output(10, True) if (pattern
        == 'uk'):
                time.sleep(2)
        else:
                time.sleep(3)

        # Amber off (red comes on at top of loop)
        GPIO.output(10, False)
```