ASSIGNMENT -3

Assignment date	08 October 2022
Student name	KABILAN P
Student Roll Number	711719104039
Maximum Marks	2 Marks

QUESTION:

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

Solution:

PYTHON CODE FOR BLINKING LED

import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library

from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now

GPIO.setmode(GPIO.BOARD) # Use physical pin numbering

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)

while True: # Run forever

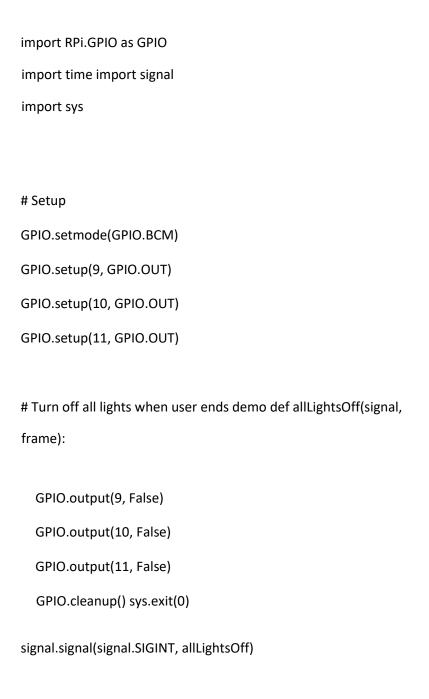
GPIO.output(8, GPIO.HIGH) # Turn on sleep(1)

Sleep for 1 second

GPIO.output(8, GPIO.LOW) # Turn off sleep(1)

Sleep for 1 second

PYTHON CODE FOR TRAFFIC LIGHT



Loop forever while True:

```
# Red
GPIO.output(9, True)
time.sleep(3)
  Red
                   amber
           and
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)
```