ASSIGNMENT -3

Assignment date	08 October 2022
Student name	ABDUL RAZACK ASHIQ M
Student Roll Number	711719104002
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

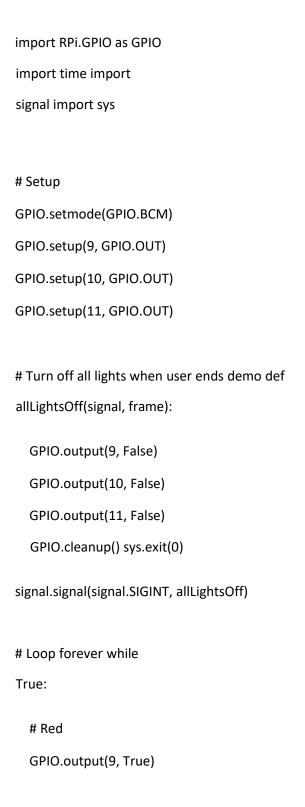
GPIO.output(8, GPIO.HIGH) # Turn on

sleep(1) # Sleep for 1 second

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

sleep(1) # Sleep for 1 second

PYTHON CODE FOR TRAFFIC LIGHT



```
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)
```