Assignment -3
Python Programming

Assignment Date	02 October 2022
Student Name	Veena V R
Student Roll Number	92172019104166
Maximum Marks	2 Marks

Question-1:

Write a python code for led blinking in raspberry pi

Solution:

```
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
```

```
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

onsleep(1) # Sleep for 1 second

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

off

sleep(1) # Sleep for 1 second

Question-2:

Write a python code for traffic light in raspberry pi

Solution:

from gpiozero import Button, TrafficLights,

Buzzer

from time import

sleepbuzzer =

Buzzer(15)

button =

Button(21)

lights = TrafficLights(25,

8, 7)while True:

```
button.wait_for_p
ress()buzzer.on()
light.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.re
d.on()
sleep(1)
lights.off
()
buzzer.o
ff()
```