

**Assignment -3**  
Python Programming

Assignment Date	02 October 2022
Student Name	Sarafina Haseen A
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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

moduleGPIO.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

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

```

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

moduleGPIO.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  
  
    res()buzzer.on()  
  
    light.green.on()  
  
    sleep(1)  
  
    lights.amber.on()  
  
    sleep(1)  
  
    lights.re  
  
    d.on()  
  
    sleep(1)  
  
    lights.of  
  
    f()  
  
    buzzer.o  
  
    ff()
```