

**Assignment -3**  
Python Programming

Assignment Date	28 September 2022
Student Name	Sucharritha L G
Student Roll Number	7179KCTKCTKCTKCTKCT19BEC047
Maximum Marks	2 Marks

**Question-1:**

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

python  
program  
to blink a  
Led for  
Raspberry  
pi

```
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  
program  
for traffic  
light for  
Raspberry  
pi

```
from gpiozero import Buzzer
from gpiozero import Button
from gpiozero import LED
from time import sleep
button = Button (21)

buzzer = Buzzer (15)

redled = LED(25)

yellowled = LED(8)

greenled = LED(7)
```

```
while True: if button.is_pressed:
```

```
    redled.on()
```

```
    buzzer.on()
```

```
    sleep(2)
```

```
    redled.off()
```

```
    buzzer.off()
```

```
    yellowled.on()
```

```
    sleep(2)
```

```
    yellowled.off()
```

```
    greenled.on()
```

```
    sleep(2)
```

```
    greenled.off()
```

```
    break
```