

Assignment -3
Python Programming

Assignment Date	28 September 2022
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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
```